ORDER No. ACED001217C1
C4

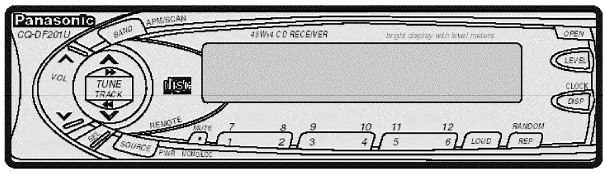
Service Manual

AUTOMOTIVE CONSUMER ELECTRONICS

COMPACT disc DIGITAL AUDIO

CQ-DF201U

Removable Full Front High-Power CD Player / Receiver



SPECIFICATIONS

Specification

General	
Power Supply	**DC 12V (11V - 16V),** **Test Voltage 14.4V** **Negative Ground**
Tone Adjustment Range	**Bass ; ±12dB at 100Hz** **Treble ; ±12dB at 10kHz**
Current Consumption	**Less than 2.2A (CD play mode ; 0.5W×4)**
Maximum Power Output	**45W×4ch (at 400Hz, Vol. MAX)**
Pre-Amp Output Voltage	**2.0V (CD play mode ; 1kHz 0dB)**
Output Impedance	**200 Ω**
Suitable Speaker Impedance	**4-8 Ω**
AM Radio	
Frequency Range	**530 - 1,710kHz**
Usable Sensitivity	**28dB/ μ V (25 μ V, S/N 20dB)**
FM Stereo Radio	
Frequency Range	**87.9 - 107.9MHz**
Usable Sensitivity	**11.0dBf. (12.5 μ V, 75 Ω)**
CD Player	
Sampling Frequency	**32 times oversampling**
Pick-Up Type	**Astigma 3-beam**
Light Source	**Semiconductor Laser**
Wavelength	**780nm**
Frequency Response	**20Hz to 20,000Hz (±1dB)**
Signal to Noise Ratio	**96dB**
Wow and Flutter	**Below measurable limits**
Channel Separation	**75dB**
Dimensions**	**7"×1-15/16"×5-7/8"** **(178×50×150mm)**
Weight**	**3lbs 1oz (1.4kg)**

*** Specifications and the design are subject to possible modification without notice due to improvements.**

**** Dimensions and Weight shown are approximate.**

-Above specifications comply with EIA standards.

Panasonic®

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

1. FEATUERS

- 32bit-times over sampling MASH 1bit 4-DAC system.
- Digital servo for reliable playback.
- PLL (Phase Locked Loop) synthesized tuning.
- 18-FM, 6-AM presets with preset scan

2. REPLACING THE FUSE

Use fuses of the same specified rating (15amps). Using different substitutes or fuses with higher ratings, or connecting the product directly without a fuse, could cause fire or damage to the stereo unit.

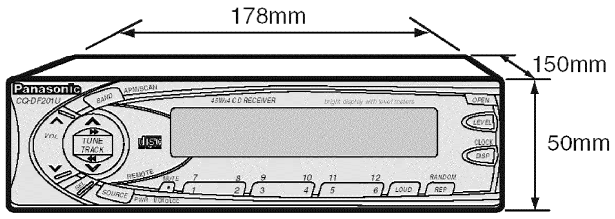
3. MAINTENANCE

Your product is designed and manufactured to ensure a minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvents.

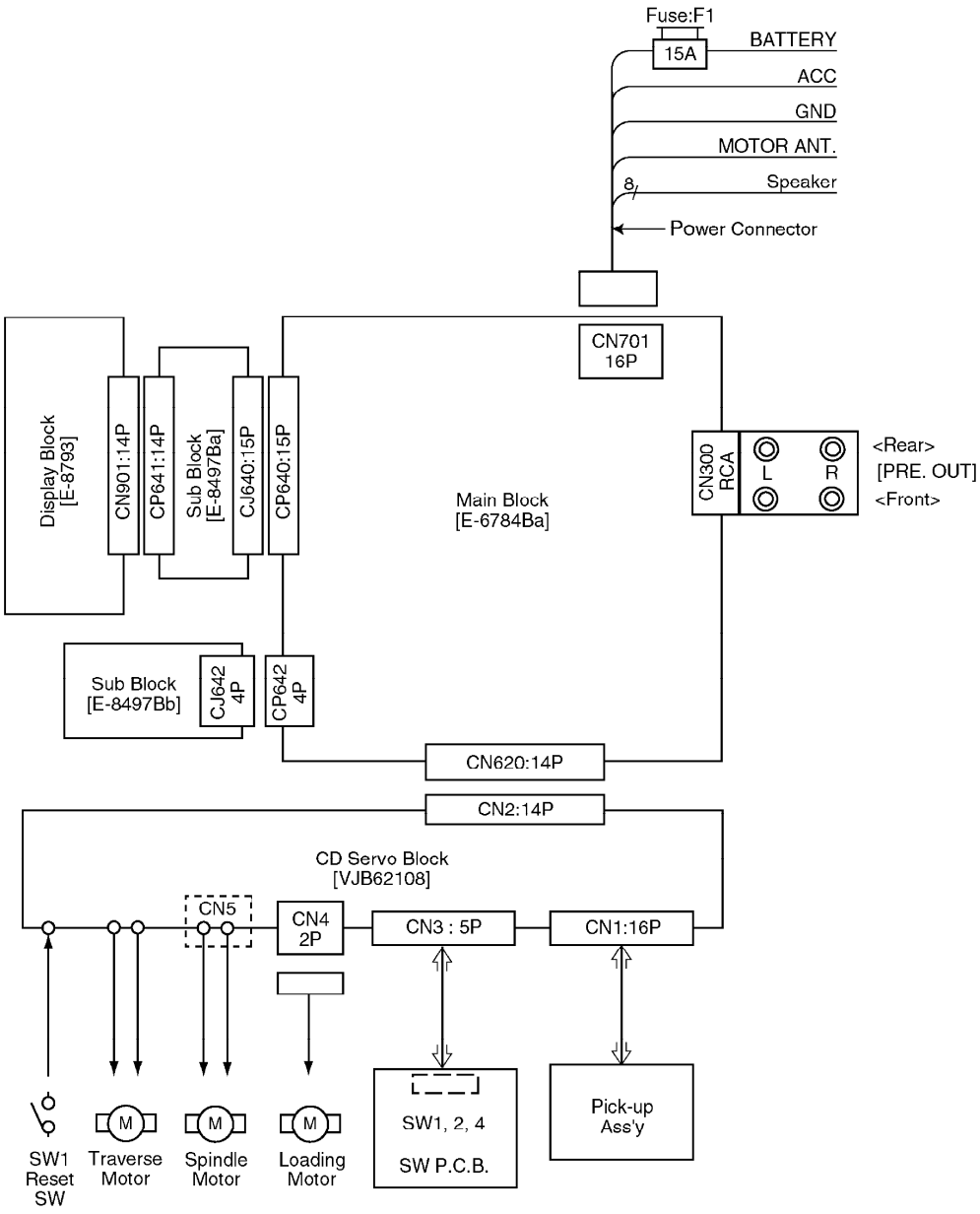
4. NOTES

[RADIO BLOCK]
Do not align the AM/FM package block. When the package block is necessary, it will be supplied already aligned at the factory.
[CD DECK BLOCK]
This model has no servo alignment points because microcomputer controls the servo circuit.

5. DIMENSIONS



6. WIRING CONNECTION

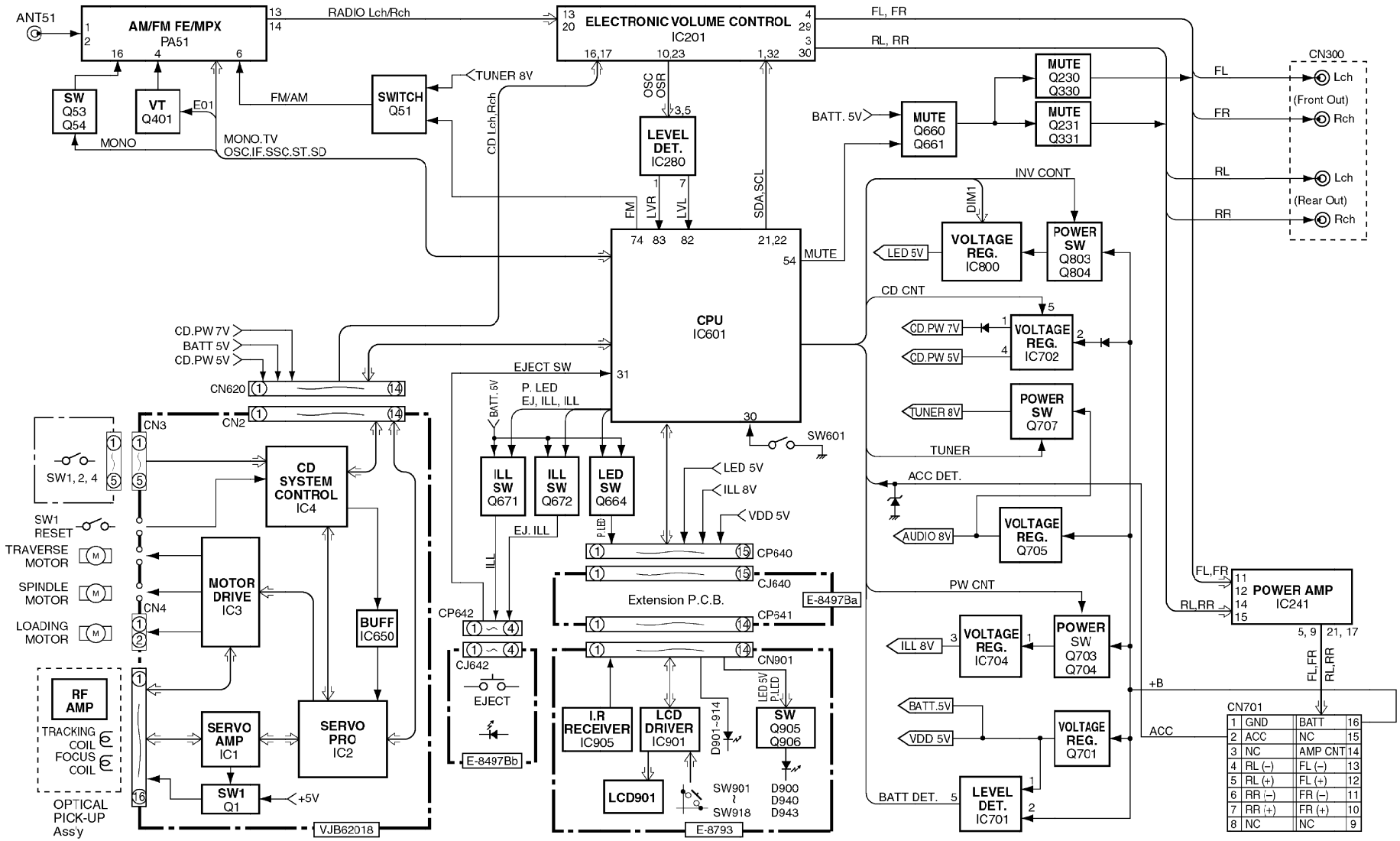


<Note> :

▭ .....This mark shows a Ref. No. of connector

[ ] .....This mark shows a mounting position of connector.

7. BLOCK DIAGRAM


ANT51
AM/FM FE/MPX
PA51
RADIO Lch/Rch
ELECTRONIC VOLUME CONTROL
IC201
FL, FR
RL, RR
SW
Q53
Q54
VT
Q401
E01
FM/AM
SWITCH
Q51
TUNER 8V
MONO
MONO.TV
OSC.IF.SSC.ST.SD
CD Lch.Rch
OSC
OSR
LEVEL
DET.
IC280
FM
LVR
LVL
SDA.SCL
BATT. 5V
MUTE
Q660
Q661
MUTE
Q230
Q330
MUTE
Q231
Q331
CN300
Lch
(Front Out)
Rch
Lch
(Rear Out)
Rch
INV CONT
DIM1
LED 5V
VOLTAGE
REG.
IC800
POWER
SW
Q803
Q804
CD CNT
CPU
IC601
MUTE
CD.PW 7V
BATT 5V
CD.PW 5V
CN620
EJECT SW
P. LED
EJ, ILL, ILL
SW601
CD.PW 7V
CD.PW 5V
VOLTAGE
REG.
IC702
TUNER 8V
POWER
SW
Q707
TUNER
ACC DET.
AUDIO 8V
VOLTAGE
REG.
Q705
CN3
CN2
SW1, 2, 4
SW1
RESET
TRAVERSE
MOTOR
SPINDLE
MOTOR
LOADING
MOTOR
CN4
CD
SYSTEM
CONTROL
IC4
MOTOR
DRIVE
IC3
BUFF
IC650
ILL
SW
Q671
ILL
SW
Q672
LED
SW
Q664
LED 5V
ILL 8V
VDD 5V
P.LED
EJ. ILL
ILL
CP640
CJ640
Extension P.C.B.
E-8497Ba
CP642
CP641
CJ642
EJECT
CN901
I.R
RECEIVER
IC905
LCD
DRIVER
IC901
D901~914
LED 5V
P.LED
SW
Q905
Q906
LCD901
SW901
~
SW918
D900
D940
D943
E-8793
E-8497Bb
RF
AMP
TRACKING
COIL
FOCUS
COIL
OPTICAL
PICK-UP
Ass'y
SERVO
AMP
IC1
SERVO
PRO
IC2
SW1
Q1
+5V
VJB62018
PW CNT
ILL 8V
VOLTAGE
REG.
IC704
POWER
SW
Q703
Q704
BATT.5V
VDD 5V
VOLTAGE
REG.
Q701
BATT DET.
LEVEL
DET.
IC701
FL,FR
RL,RR
POWER AMP
IC241
5, 9
21, 17
FL,FR
RL,RR
+B
ACC
CN701
1 GND BATT 16
2 ACC NC 15
3 NC AMP CNT 14
4 RL (–) FL (–) 13
5 RL (+) FL (+) 12
6 RR (–) FR (–) 11
7 RR (+) FR (+) 10
8 NC NC 9

8. TERMINALS DESCRIPTION

8.1. Main Block

IC601 : C2ABGF000018

Pin No.	Port	Description	I/O	(V)
1	XIN	Crystal oscillator	-	1.9
2	TEST2	(Connecting to ground)	-	0
3	VREG	Voltage regulator capacitor	-	0
4	VSS	Ground	-	0
5	CHC DATA	Not used	-	-
6	N.C.	No connection	-	-
7	CHC CK	Not used	-	-
8	RM DATA	Not used	-	-
9-12	N.C.	No connection	-	-
13	/LCD CE	LCD chip enable	O	0.6
14,15	N.C.	No connection	-	-
16	LCD DI	LCD data	O	4.6
17	LCD CLK	LCD clock	O	4.7
18	N.C.	No connection	-	-
19	BATT	Battery detection	I	5.0
20	LCD DO	LCD data	I	4.9
21	I2C CLK	Electric volume cont. clock	O	5.2
22	I2C DATA	Electric volume cont. data	I/O	5.2
23	/LED	Security LED control	O	3.7
24	N.C.	No connection	-	-
25	/EJ ILL	Eject illumi. Control	O	5.0
26	/ILL	Illumi. Control	O	5.0
27	N.C.	No connection	-	-
28	/P. LED	Panel LED control	O	0.4
29	FP CLOSE	Front panel close SW	I	5.2
30	PANEL	Panel detection SW	I	5.2
31	/EJ	Eject SW	I	4.7
32-38	N.C.	(Connecting to VDD)	-	5.0
39	VDD	+5V power supply	-	5.0
40	VSS	Ground	-	0
41-48	N.C.	(Connecting to ground)	-	0
49	CD CNT	CD power control	O	4.9
50	INV CNT	Invertor control	O	4.9

51	DIM 2	Not used	-	-
52	DIM 1	Dimmer control	O	4.9
53	PWR CNT	Power control	O	4.9
54	/MUTE	Mute control	O	5.0
55	CD DATA	CD data	I/O	4.7
56	CD CLK1	CD clock	O	5.0
57-61	N.C.	No connection	-	-
62	SUB80/ 120	Not used	-	-
63	SUB CLK	Not used	-	-
64	SUB DATA	Not used	-	-
65	/HDB	Not used	-	-
66	N.C.	No connection	-	-
67	/CD RST	CD reset	O	5.0
68	/CD ON	CD power on	O	0
69	CD CLK2	CD clock	O	4.9
70	CD MUTE	CD mute	I	0
71	REM IN	Remocon data	I	5.1
72	CHC STB	CD changer strobe	O	0
73	/TUNER	Tunner power control	O	0.3
74	FM	FM power control	O	0.2
75	/MONO	Mono/Stereo selection	O	8.0
76	SSC	Search stop clear	O	0.2
77	ACC SEN	ACC detection	I	3.9
78	N.C.	(Connecting to ground)	-	0
79	INIT A	Initial value	I	0
80	INIT B	Initial value	I	0
81	ADC VSS	ADC ground	-	0
82	LV L	Lch level detection	I	1.4
83	LV R	Rch level detection	I	1.4
84	N.C.	(Connecting to ground)	-	0
85	SD	B/S detection	I	0.6
86	/RESET	(Connecting to VDD)	-	5.0
87	HOLD	(Connecting to VDD)	-	5.0
88	SNS	(Connecting to VDD)	-	5.0
89	LCTR	(Connecting to ground)	-	0
90	IFC	Radio IF control	O	2.6
91	E03	Not used	-	-
92	/ST	FM stereo detection	I	4.5
93	PLL VDD	+5V power supply	-	5.0
94	AM IN	(Connecting to ground)	-	0
95	OSC	Radio oscillator	I	2.4
96	PLL VSS	PLL ground	-	0

97	E02	Not used	-	-
98	E01	PLL phase-comp. error	O	1.4
99	TEST 1	(Connecting to ground)	-	0
100	XOUT	Crystal oscillator	-	2.6

8.2. Display Block

IC901 : YEAMLC75854T

Pin No.	Port	Description	I/O	(V)
1-39	S1-39	LCD segment data	O	2.5
40-43	COM1-4	LCD common	O	2.5
44,45	KS1, 2	Not used	-	-
46-49	KS3-6	Key strobe	O	0.9
50-54	KI1-5	Key data	I	0
55	TEST	(Connecting to ground)	-	0
56	VDD	+5V power supply	-	5.1
57	VDD1	VDD1 filter terminal	-	3.3
58	VDD2	VDD2 filter terminal	-	1.7
59	VSS	Ground	-	0
60	OSC	Oscillator terminal	-	3.9
61	DO	Key data output	O	4.4
62	CE	LCD driver chip enable	I	0
63	CLK	LCD clock	I	0
64	DI	LCD data	I	0

8.3. CD Servo Block

IC2 : MN6627481RPM

Pin No.	Port	Description	I/O	(V)
1	BCLK	Bit clock output	O	2.5
2	LRCK	L/R select output	O	2.5
3	SRDATA	Serial data output	O	2.5
4	DVDD1	+5V digital power supply	-	5.1
5	DVSS1	Digital ground	-	0
6	TX	Not used	-	-
7	MCLK	MPU command clock	I	4.6
8	MDATA	MPU command data	I	0.2
9	MLD	MPU command load	I	4.8
10	SENSE	Not used	-	-
11	/FLOCK	Not used	-	-
12	/TLOCK	Not used	-	-
13	BLKCK	Sub-code block clock	O	0
14	SQCK	Q code external clock	I	0
15	SUBQ	Q code output	O	5.1
16	DMUTE	Mute input	I	2.9
17	STAT	Status output	O	0
18	/RST	Reset input	I	5.0
19	SMCK	Not used	-	-
20	PMCK	Not used	-	-
21	TRV	Forced traverse output	-	2.5
22	TVD	Traverse drive output	O	2.5
23	PC	Not used	-	-
24	ECM	Spindle motor drive	O	2.4
25	ECS	Spindle motor drive	O	2.5
26	KICK	Kick pulse output	O	2.4
27	TRD	Tracking drive	O	2.5
28	FOD	Focus drive	O	2.6
29	VREF	D/A reference voltage	I	2.5
30	FBAL	Focus balance adjust	O	2.5
31	TBAL	Tracking balance adjust	O	2.5
32	FE	Focus error signal	I	2.5
33	TE	Tracking error signal	I	2.5
34	RFENV	RF envelope signal	I	2.5
35	VDET	Vibration detection	I	0
36	OFT	Off track signal	I	0
37	TRCRS	Track closs signal	I	2.7
38	/RFDET	RF detection signal	I	0
39	BDO	Drop out signal	I	0
40	LDON	Laser on/off control	O	5.0
41	PLL F2	Not used	-	-
42	TOFS	Not used	-	-
43	WVEL	Not used	-	-

44	ARE	RF signal	I	2.5
45	IREF	Reference current input	I	1.2
46	DRF	Connecting to ground	-	0
47	DSLF	DSL loop filter	I/O	2.5
48	PLLF	PLL loop filter	I/O	2.3
49	VCOF	Connecting to VDD	-	5.1
50	AVDD2	+5V analog power supply	-	5.1
51	AVSS2	Analog ground	-	0
52-55		Not used	-	-
56	SBCK	(Connecting to ground)	-	0
57	VSS	Ground	-	0
58	X1	Crystal oscillator	-	2.5
59	X2	Crystal oscillator	-	2.9
60	VDD	+5V power supply	-	5.1
61-69		Not used	-	-
70	IOSEL	(Connecting to ground)	-	0
71	/TEST	Connecting to VDD	-	5.1
72	AVDD1	+5V analog power supply	-	4.8
73	OUTL	Audio Lch output	O	2.4
74	AVSS1	Analog ground	-	0
75	OUTR	Audio Rch output	O	2.4
76	RSEL	connecting to VDD	I	5.1
77	CSEL	Connecting to ground	-	0
78	PSEL	Serial data input	I	2.5
79	MSEL	L/R select input	I	2.5
80	SSEL	Bit clock input	I	2.5

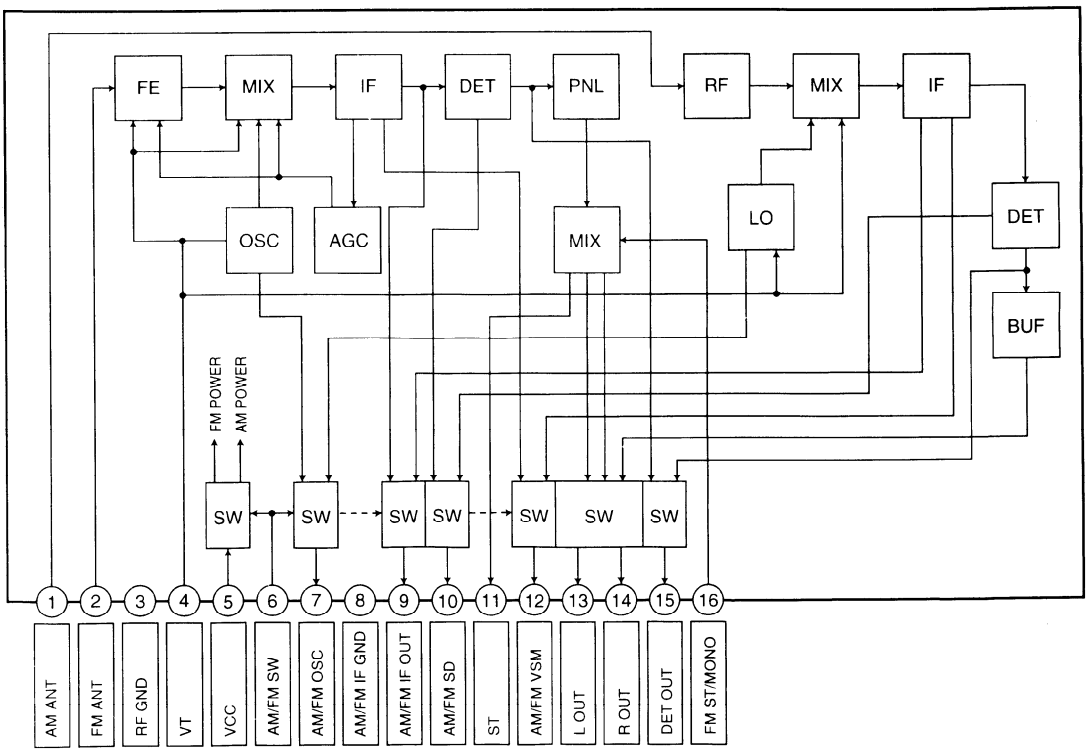
IC4 : C2BBD000218

Pin No.	Port	Description	I/O	(V)
1	LMTR_FWD	Forward Limiter	O	5.2
2	LMTR_REV	Reverse Limiter	O	5.2
3	LO/SP	Motor control	O	0
4	REST_SW	Reset	I	4.8
5	GND1	Ground	-	0
6	GND2	Ground	-	0
7	/RST	Reset	I	4.9
8	XO	Crystal oscillator	-	2.1
9	XI	Crystal oscillator	-	2.6
10	VSS	Ground	-	0
11	SW4	Switch input	I	0
12	BLKCK	Sub-code block clock	I	0
13	SW1	Switch input	I	4.9
14	SW2	Switch input	I	5.0
15	SW3	Switch input	I	0
16	NC	No connection	-	-
17	SUBQ	Q code input	I	2.5
18	STAT	Status input	I	5.0
19	SQCK	Q code external clock	O	5.1
20	MCLCK	MPU command clock	O	4.0
21	VSS2	Ground	-	0
22	SRST	Reset output	O	4.9
23	DMUTE	Mute output	O	0
24	MLD	MPU command load	O	4.8
25	MDATA	MPU command data	O	0.2
26	ACC	ACC input	I	0.2
27	C1	CD clock	I	4.9
28	DATA	CD data	I/O	0
29	C2	CD clock	I	5.2
30	VCC	+5V power supply	-	5.2

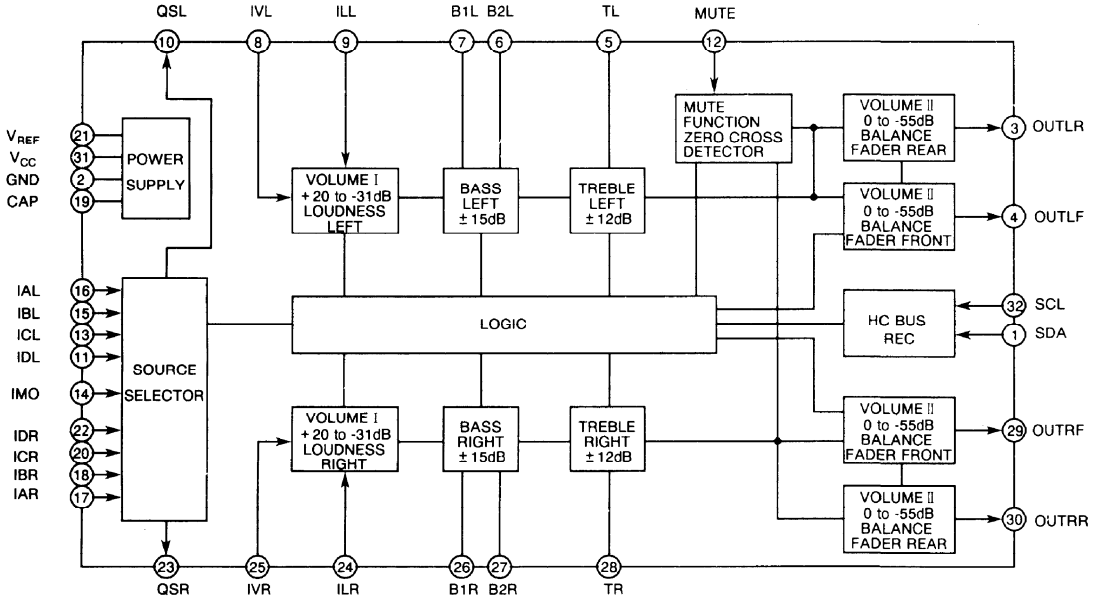
9. PACKAGE AND IC BLOCK DIAGRAM

9.1. Main Block

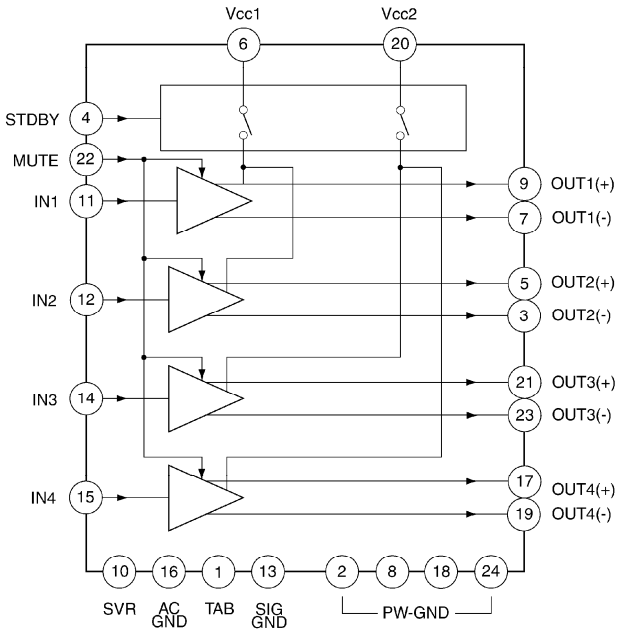
PA51 : YEAU03A052C



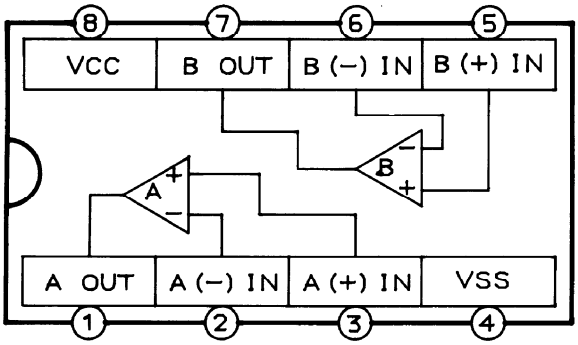
IC201 : YEAMEA6320TT



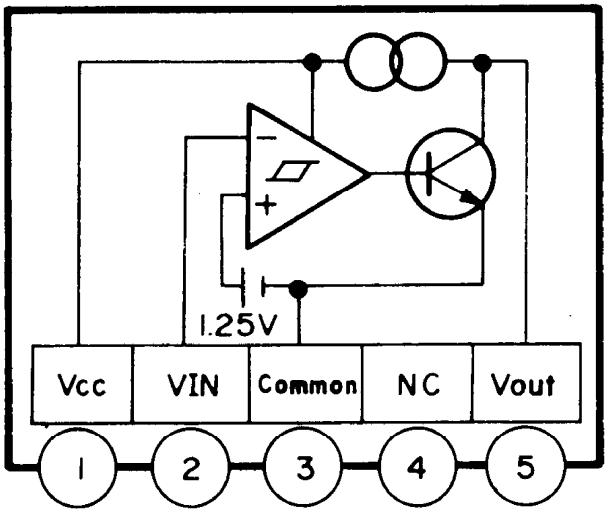
IC241 : C1EA00000026



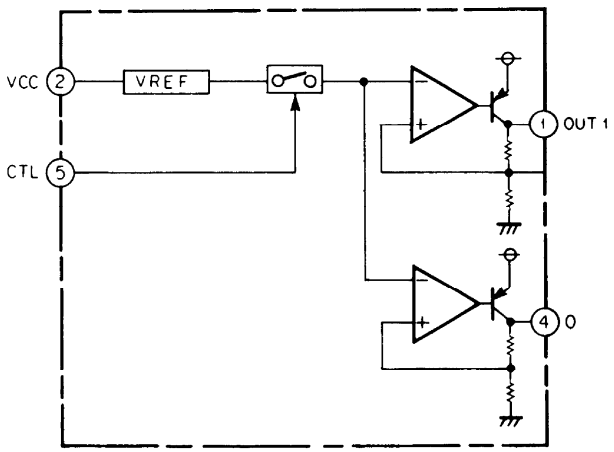
IC280 : YEAMM5218AFE



IC701 : YEAMM51945AL

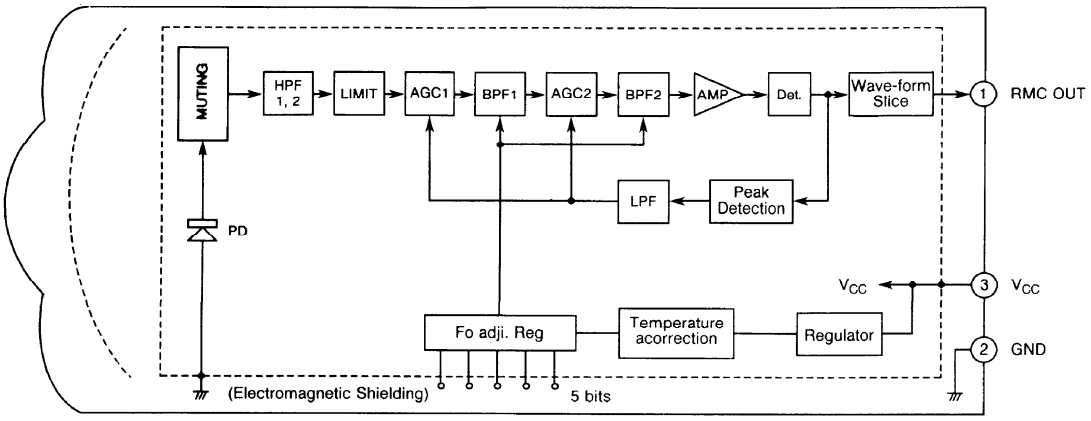


IC702 : YEAMA41W12ST



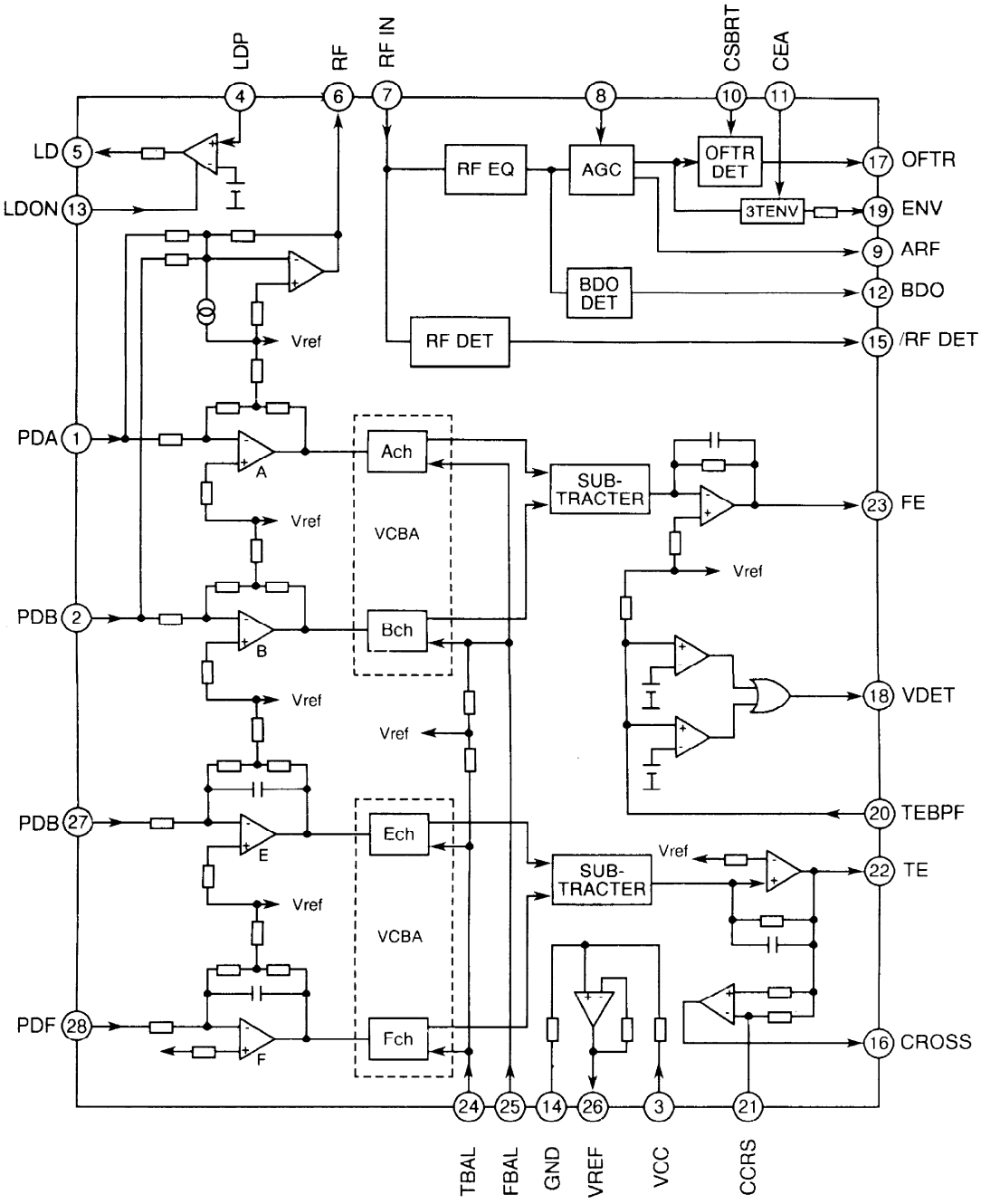
9.2. Display Block

IC905 : YEAMSBX8035F

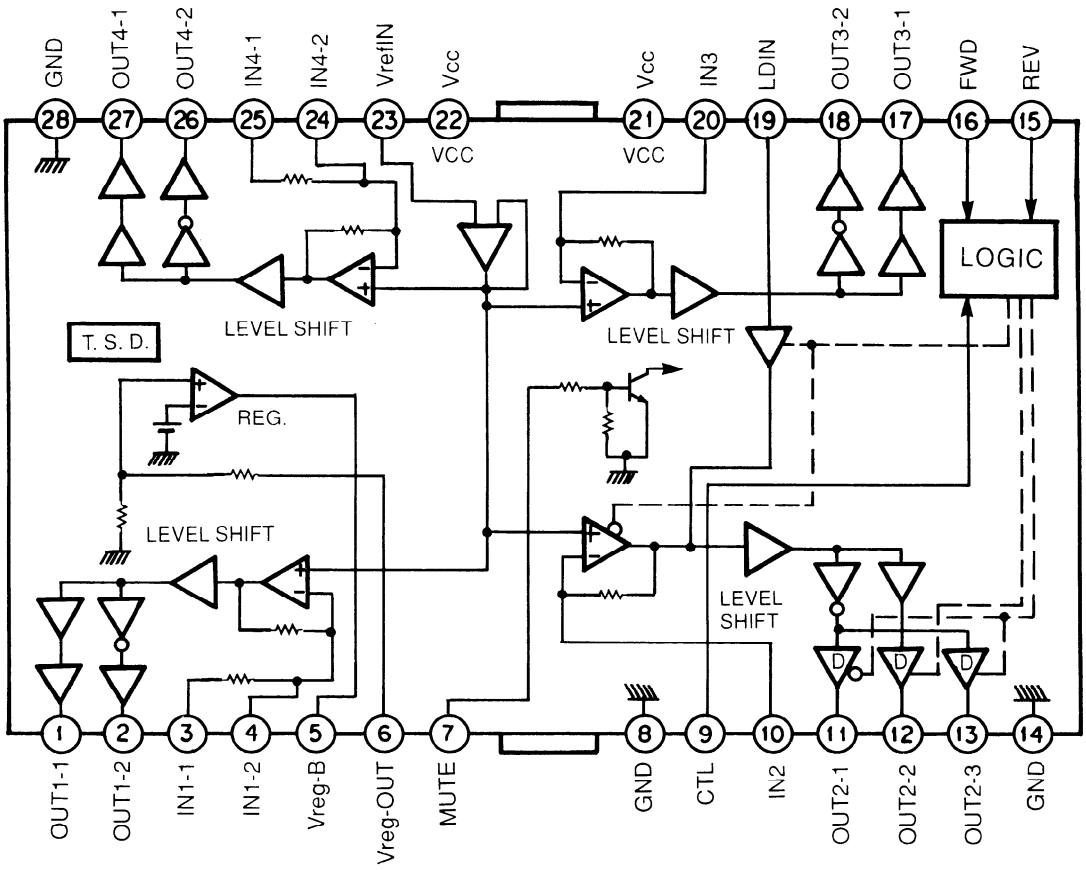


9.3. CD Servo Block

IC1 : AN8835SB



IC3 : BA6795FPE2



10. REPLACEMENT PRTS LIST

Notes :

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.**
3. **Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.**
4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**

10.1. Main Block [E6784B]

IC's and TRANSISTORs

Ref. No.	Part No.	Part Name & Description	Remarks
IC201	YEAMEA6320TT	IC	
IC241	C1EA00000026	IC	
IC280	YEAMM5218AFE	IC	
IC601	C2ABGF000018	IC	
IC701	YEAMM51945AL	IC	
IC702	YEAMA41W12ST	IC	
IC704	AN78N08	IC	
IC800	AN7805F	IC	
PA51	YEAU03A052C	Tuner IC	
Q51	YEANA114YKTX	Transistor	
Q53	YEANA114YKTX	Transistor	
Q54	B1GBCFNN0005	Transistor	
Q230	YEANC143TKT	Transistor	
Q231	YEANC143TKT	Transistor	
Q330	YEANC143TKT	Transistor	
Q331	YEANC143TKT	Transistor	
Q401	YEAN2SK536TB	Transistor	
Q660	YEANA114EKTX	Transistor	
Q661	YEANA114EKTX	Transistor	
Q664	YEANA114YKTX	Transistor	
Q671	YEANA114EKTX	Transistor	
Q672	YEANA114EKTX	Transistor	
Q701	YEAND1859T	Transistor	
Q703	YEANB1243QRT	Transistor	
Q704	B1GBCFJN0005	Transistor	
Q705	2SD2139TA	Transistor	
Q707	YEANFP1F3PT1	Transistor	
Q803	YEANB1243QRT	Transistor	
Q804	B1GBCFJN0005	Transistor	

DIODEs

Ref. No.	Part No.	Part Name & Description	Remarks
D611	LN25RP	Diode	
D640	MA8056LMHTX	Diode	
D680	MA151KTX	Diode	
D681	YEADRD51M2T1	Diode	
D682	MA151KTX	Diode	
D683	YEADRD51M2T1	Diode	
D701	YEADDSA3A2	Diode	
D702	MA151KTX	Diode	
D703	YEADRD56M3T1	Diode	
D704	MA721TX	Diode	
D705	MA704TW	Diode	
D706	YEADRD51M2T1	Diode	
D707	YEADRB100AT	Diode	
D708	YEADRD91M1T2	Diode	
D709	YEADRB100AT	Diode	
D710	MA721TX	Diode	
D712	MA1091LMTA	Diode	
D715	YEADRB100AT	Diode	
D716	YEADRB100AT	Diode	

CAPACITORs

Ref. No.	Part No.	Part Name & Description	Remarks
C51	ECEA1CKA470I	Electrolytic, 47 μ F 16WV	
C52	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C53	YECUS1H101JM	Ceramic, 100PF 50WV	
C54	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C57	YECUS1E273KX	Ceramic, 0.027 μ F 25WV	
C58	YECUS1E273KX	Ceramic, 0.027 μ F 25WV	
C60	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C61	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C201	YECUS1H101JM	Ceramic, 100PF 50WV	
C202	YECUS1H101JM	Ceramic, 100PF 50WV	
C203	ECEA1HKA3R3I	Electrolytic, 3.3 μ F 50WV	
C205	ECEA1HKAR33I	Electrolytic, 0.33 μ F 50WV	
C208	YECUS1E333KX	Ceramic, 0.033 μ F 25WV	
C209	YECUS1H562KX	Ceramic, 0.0056 μ F 50WV	
C210	ECEA1CKA470I	Electrolytic, 47 μ F 16WV	
C211	F1K1E334A022	Ceramic, 0.33 μ F 25WV	
C230	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C231	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C238	YECUS1H221JM	Ceramic, 220PF 50WV	
C239	YECUS1H221JM	Ceramic, 220PF 50WV	
C241	ECEA1HKAR47I	Electrolytic, 0.47 μ F 50WV	
C242	YECUS1H122KX	Ceramic, 0.0012 μ F 50WV	
C244	ECEA1HKAR47I	Electrolytic, 0.47 μ F 50WV	
C245	YECUS1H122KX	Ceramic, 0.0012 μ F 50WV	
C248	ECA1CDT472Y	Electrolytic, 4700 μ F 16WV	
C250	YECUV1H101JM	Ceramic, 100PF 50WV	
C251	YECUS1H101JM	Ceramic, 100PF 50WV	
C252	YECUV1H101JM	Ceramic, 100PF 50WV	
C253	YECUS1H101JM	Ceramic, 100PF 50WV	
C280	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C281	YECUS1H102KX	Ceramic, 0.001 μ F 50WV	
C282	ECEA1AKA220I	Electrolytic, 22 μ F 10WV	
C283	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C301	YECUS1H101JM	Ceramic, 100PF 50WV	
C302	YECUS1H101JM	Ceramic, 100PF 50WV	
C303	ECEA1HKA3R3I	Electrolytic, 3.3 μ F 50WV	
C305	ECEA1HKAR33I	Electrolytic, 0.33 μ F 50WV	
C308	YECUS1E333KX	Ceramic, 0.033 μ F 25WV	
C309	YECUS1H562KX	Ceramic, 0.0056 μ F 50WV	
C310	ECEA0JKA101I	Electrolytic, 100 μ F 6.3WV	
C311	ECEA1CKA470I	Electrolytic, 47 μ F 16WV	
C330	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C331	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C338	YECUS1H221JM	Ceramic, 220PF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C339	YECUS1H221JM	Ceramic, 220PF 50WV	
C341	ECEA1HKAR47I	Electrolytic, 0.47 μF 50WV	
C342	YECUS1H122KX	Ceramic, 0.0012 μF 50WV	
C344	ECEA1HKAR47I	Electrolytic, 0.47 μF 50WV	
C345	YECUS1H122KX	Ceramic, 0.0012 μF 50WV	
C346	ECEA1HKA010I	Electrolytic, 1 μF 50WV	
C347	ECEA1AKS101	Electrolytic, 100 μF 10WV	
C348	ECEA1HKS2R2I	Electrolytic, 2.2 μF 50WV	
C350	YECUV1H101JM	Ceramic, 100PF 50WV	
C351	YECUS1H101JM	Ceramic, 100PF 50WV	
C352	YECUS1H101JM	Ceramic, 100PF 50WV	
C353	YECUV1H101JM	Ceramic, 100PF 50WV	
C360	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C361	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C380	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C381	YECUS1H102KX	Ceramic, 0.001 μF 50WV	
C402	ECEA1AKS221I	Electrolytic, 220 μF 10WV	
C403	ECEA1HKA4R7	Electrolytic, 4.7 μF 50WV	
C404	YECUS1H103KX	Ceramic, 0.01 μF 50WV	
C405	YECUS1H102KX	Ceramic, 0.001 μF 50WV	
C510	YECUS1H103KX	Ceramic, 0.01 μF 50WV	
C601	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C603	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C604	YECUS1H103KX	Ceramic, 0.01 μF 50WV	
C606	YECUS1H220JM	Ceramic, 22PF 50WV	
C607	YECUS1H220JM	Ceramic, 22PF 50WV	
C608	ECEA0JKA331I	Electrolytic, 330 μF 6.3WV	
C609	EECS0HD473H	Electrolytic, 0.047F 5WV	
C613	YECUV2A102KX	Ceramic, 0.001 μF 100WV	
C619	YECUS1E104ZF	Ceramic, 0.1 μF 25WV	
C635	YECUS1H680JM	Ceramic, 68PF 50WV	
C636	YECUS1H101JM	Ceramic, 100PF 50WV	
C660	ECEA0JKA101I	Electrolytic, 100 μF 6.3WV	
C661	YECUS1H103KX	Ceramic, 0.01 μF 50WV	
C662	ECEA1CKA100I	Electrolytic, 10 μF 16WV	
C663	YECUS1H103KX	Ceramic, 0.01 μF 50WV	
C680	ECSH1CY225CR	Tantalum, 2.2 μF 16WV	
C681	ECSH1CY225CR	Tantalum, 2.2 μF 16WV	
C701	ECEA1CKA101	Electrolytic, 100 μF 16WV	
C702	ECEA1CKA100I	Electrolytic, 10 μF 16WV	
C703	ECEA1CKA101	Electrolytic, 100 μF 16WV	
C704	ECEA0JKA470I	Electrolytic, 47 μF 6.3WV	
C705	ECEA1HKA010I	Electrolytic, 1 μF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C706	ECEA1CKA101	Electrolytic, 100 μ F 16WV	
C707	ECEA1AKA101I	Electrolytic, 100 μ F 10WV	
C708	ECEA1CKA101	Electrolytic, 100 μ F 16WV	
C709	ECEA1AKA221I	Electrolytic, 220 μ F 10WV	
C710	ECA1CDT102BQ	Electrolytic, 1000 μ F 16WV	
C711	F1K1E334A022	Ceramic, 0.33 μ F 25WV	
C712	EEAFC1A820H	Electrolytic, 82 μ F 10WV	
C714	ECEA0JKA101I	Electrolytic, 100 μ F 6.3WV	
C715	F1K1E334A022	Ceramic, 0.33 μ F 25WV	
C716	ECSH1VC335PR	Tantalum, 3.5 μ F 35WV	
C717	ECEA1CKA470I	Electrolytic, 47 μ F 16WV	
C719	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C800	YECUV1H104ZF	Ceramic, 0.1 μ F 50WV	
C801	ECEA1CKA101	Electrolytic, 100 μ F 16WV	
C802	F1K1E334A022	Ceramic, 0.33 μ F 25WV	
C803	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	

RESISTORs

Ref. No.	Part No.	Part Name & Description	Remarks
C804	ERJ6GEYJ222	Chip, 2.2k Ω 1/10W	
J501	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
J502	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
J503	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
J504	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
J505	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
J506	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
J507	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
J508	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
J509	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
J601	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J602	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J603	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J604	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J605	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
J606	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J607	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J608	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J609	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J610	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J611	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J612	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J613	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J614	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J615	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
J616	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J617	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J618	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J619	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J620	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J621	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J622	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J623	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J624	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J625	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J626	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J627	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J628	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J629	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J630	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J631	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J632	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J633	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J634	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J635	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J636	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J637	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J638	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J639	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J640	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J641	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J642	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J643	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J644	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
R50	ERJ6GEYJ5R6	Chip, 5.6 Ω 1/10W	
R51	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R52	ERJ6GEYJ393	Chip, 39k Ω 1/10W	
R53	ERJ6GEYJ431	Chip, 430 Ω 1/10W	
R54	ERJ8GEYJ123V	Chip, 12k Ω 1/8W	
R56	ERJ6GEYJ123	Chip, 12k Ω 1/10W	
R57	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R59	ERJ6GEYJ822	Chip, 8.2k Ω 1/10W	
R60	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R201	ERJ8GEYJ183V	Chip, 18k Ω 1/8W	
R202	ERJ8GEYJ183V	Chip, 18k Ω 1/8W	
R207	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
R225	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R226	ERJ6GEYJ333	Chip, 33k Ω 1/10W	
R230	ERJ6GEYJ221	Chip, 220 Ω 1/10W	
R232	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R235	ERJ6GEYJ221	Chip, 220 Ω 1/10W	
R237	ERJ6GEYJ103	Chip, 10k Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R240	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R242	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R280	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R281	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R282	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R283	ERJ6GEYJ123	Chip, 12k Ω 1/10W	
R284	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R301	ERJ8GEYJ183V	Chip, 18k Ω 1/8W	
R302	ERJ6GEYJ183	Chip, 18k Ω 1/10W	
R307	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
R330	ERJ6GEYJ221	Chip, 220 Ω 1/10W	
R332	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R335	ERJ6GEYJ221	Chip, 220 Ω 1/10W	
R337	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R340	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R342	ERJ8GEYJ561V	Chip, 560 Ω 1/8W	
R344	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R380	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R381	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R382	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R383	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R384	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R401	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R402	ERJ6GEYJ152	Chip, 1.5k Ω 1/10W	
R403	ERJ6GEYJ471	Chip, 470 Ω 1/10W	
R405	ERJ6GEYJ152	Chip, 1.5k Ω 1/10W	
R406	ERJ6GEYJ152	Chip, 1.5k Ω 1/10W	
R407	ERJ8GEYJ100V	Chip, 10 Ω 1/8W	
R502	ERJ6GEYJ184	Chip, 180k Ω 1/10W	
R603	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R604	ERJ6GEYJ363	Chip, 36k Ω 1/10W	
R605	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R611	ERJ8GEYJ681V	Chip, 680 Ω 1/8W	
R615	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R625	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R626	ERJ8GEYJ102V	Chip, 1k Ω 1/8W	
R627	ERJ8GEYJ102V	Chip, 1k Ω 1/8W	
R628	ERJ8GEYJ102V	Chip, 1k Ω 1/8W	
R629	ERJ8GEYJ102V	Chip, 1k Ω 1/8W	
R634	ERJ6GEYJ330	Chip, 33 Ω 1/10W	
R636	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R638	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R640	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R641	ERJ14YJ1R0H	Chip, 1 Ω 1/4W	
R642	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R643	ERJ8GEYJ102V	Chip, 1k Ω 1/8W	
R644	ERJ6GEYJ102	Chip, 1k Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R645	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R646	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R647	ERJ6GEYJ184	Chip, 180k Ω 1/10W	
R648	ERJ6GEYJ184	Chip, 180k Ω 1/10W	
R649	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R660	ERJ6GEYJ182	Chip, 1.8k Ω 1/10W	
R661	ERJ6GEYJ393	Chip, 39k Ω 1/10W	
R662	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R663	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R671	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R672	ERJ6GEYJ331	Chip, 330 Ω 1/10W	
R673	ERJ6GEYJ331	Chip, 330 Ω 1/10W	
R674	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R675	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R676	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R680	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R681	ERJ8GEYJ102V	Chip, 1k Ω 1/8W	
R682	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
R683	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
R684	ERJ6GEYJ184	Chip, 180k Ω 1/10W	
R701	ERDS2FJ470	Carbon, 47 Ω 1/4W	
R703	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R704	ERJ8GEYJ684V	Chip, 680k Ω 1/8W	
R705	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R706	ERJ8GEYJ124V	Chip, 120k Ω 1/8W	
R707	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R708	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R709	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R710	ERDS1FJ561	Carbon, 560 Ω 1/2W	
R712	ERJ14YJ1R0H	Chip, 1 Ω 1/4W	
R713	ERDS1FJ181	Carbon, 180 Ω 1/2W	
R714	ERJ8GEYJ152V	Chip, 1.5k Ω 1/8W	
R801	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R802	ERJ8GEYJ152V	Chip, 1.5k Ω 1/8W	
R804	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R805	ERJ6GEY0R00	Chip, 0 Ω 1/10W	

CONNECTORs

Ref. No.	Part No.	Part Name & Description	Remarks
CJ620	YEAET14B140C	Flexible Cable, 14P	
CN300	YEAE02166	RCA, 2P	
CN620	YEAE012763	Connector, 14P	
CN701	YEAE012748	Connector, 16P	
CP640	YEAE0115MX	Connector, 15P	
CP642	YEAE0104MX	Connector, 4P	

SWITCHEs

Ref. No.	Part No.	Part Name & Description	Remarks
SW601	YEAS08042	Switch	

COILs

Ref. No.	Part No.	Part Name & Description	Remarks
L50	YELT02M330KT	Coil	
L620	YELT02C101KT	Coil	
L640	YELTBLM32A06	Coil	
L641	YELTBLM32A06	Coil	
L702	YETQ026F143	Coil	

CRYSTALs

Ref. No.	Part No.	Part Name & Description	Remarks
XL601	YEXL49U0450T	Crystal	

LAMPs

Ref. No.	Part No.	Part Name & Description	Remarks
Z50	J0LE00000002	ZNR	

THERMISTOR

Ref. No.	Part No.	Part Name & Description	Remarks
PH720	YERT7AR4R7MT	Thermistor,	

FILTER

Ref. No.	Part No.	Part Name & Description	Remarks
BPF50	YEXC07T009	Filter	

10.2. Display Block [E8793]

IC's and TRANSISTORs

Ref. No.	Part No.	Part Name & Description	Remarks
IC901	YEAMLC75854T	IC	
IC905	YEAMSBX8035F	IC	
Q905	B1GBCFNN0005	Transistor	
Q906	B1GBCFNN0005	Transistor	

DIODEs

Ref. No.	Part No.	Part Name & Description	Remarks
D900	LN1271RAL	Diode	
D901	LNJ306G5TUWQ	Diode	
D902	LNJ306G5TUWQ	Diode	
D904	LNJ306G5TUWQ	Diode	
D905	LNJ306G5TUWQ	Diode	
D906	LNJ306G5TUWQ	Diode	
D907	LNJ306G5TUWQ	Diode	
D908	LNJ306G5TUWQ	Diode	
D909	LNJ306G5TUWQ	Diode	
D910	LN1361CTR	Diode	
D911	LN1361CTR	Diode	
D912	LN1361CTR	Diode	
D913	LNJ306G5TUWQ	Diode	
D914	LNJ306G5TUWQ	Diode	
D926	MA8056LMHTX	Diode	
D927	MA8056LMHTX	Diode	
D928	MA8056LMHTX	Diode	
D929	MA8056LMHTX	Diode	
D930	MA8047MTX	Diode	
D940	B3AFA0000015	Diode	
D941	MA8047MTX	Diode	
D943	LNJ306G5TUWQ	Diode	

CAPACITORs

Ref. No.	Part No.	Part Name & Description	Remarks
C910	YECUS1H102KX	Ceramic, 0.001 μF 50WV	
C911	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C914	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C915	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C916	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C923	YECUS1H681JM	Ceramic, 680PF 50WV	

RESISTORs

Ref. No.	Part No.	Part Name & Description	Remarks
R906	ERJ6GEYJ152	Chip, 1.5k Ω 1/10W	
R907	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R908	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R909	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R910	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R911	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R938	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	
R939	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	
R940	ERJ8GEYJ121V	Chip, 120 Ω 1/8W	
R941	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R942	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R943	ERJ6GEYJ221	Chip, 220 Ω 1/10W	
R951	ERJ6GEYJ391	Chip, 390 Ω 1/10W	
R952	ERJ6GEYJ121	Chip, 120 Ω 1/10W	
R953	ERJ6GEYJ121	Chip, 120 Ω 1/10W	
R954	ERJ6GEYJ121	Chip, 120 Ω 1/10W	
R955	ERJ8GEYJ271V	Chip, 270 Ω 1/8W	

CONNECTORs

Ref. No.	Part No.	Part Name & Description	Remarks
CN901	YEAE012760	Connector, 14P	

SWITCHEs

Ref. No.	Part No.	Part Name & Description	Remarks
SW901	YEAS09312	Switch	
SW902	YEAS09312	Switch	
SW903	YEAS09312	Switch	
SW904	YEAS09312	Switch	
SW905	YEAS09312	Switch	
SW906	YEAS09312	Switch	
SW907	YEAS09312	Switch	
SW908	YEAS09312	Switch	
SW909	YEAS09312	Switch	
SW910	YEAS09312	Switch	
SW911	YEAS09312	Switch	
SW912	YEAS09312	Switch	
SW913	YEAS09312	Switch	
SW914	YEAS09312	Switch	
SW915	YEAS09312	Switch	
SW916	YEAS09312	Switch	
SW917	YEAS09312	Switch	
SW918	YEAS09312	Switch	

LCD

Ref. No.	Part No.	Part Name & Description	Remarks
LCD901	L5ACBKC00004	LCD	

10.3. Connector Block [E8947B]

DIODEs

Ref. No.	Part No.	Part Name & Description	Remarks
D642	LNJ306G5TUWQ	Diode	
D643	LNJ306G5TUWQ	Diode	

CONNECTORs

Ref. No.	Part No.	Part Name & Description	Remarks
CJ640	YEAE0115MPA	Connector, 15P	
CJ642	YEAE0104MPA	Connector, 4P	
CP641	YEAE012761	Connector, 14P	

SWITCHEs

Ref. No.	Part No.	Part Name & Description	Remarks
SW610	YEAS09267	Switch	

10.4. Accessories

PRINTINGS

Ref. No.	Part No.	Part Name & Description	Remarks
	YEFM283646	Operating Instructions	

INSTALLATION PARTS

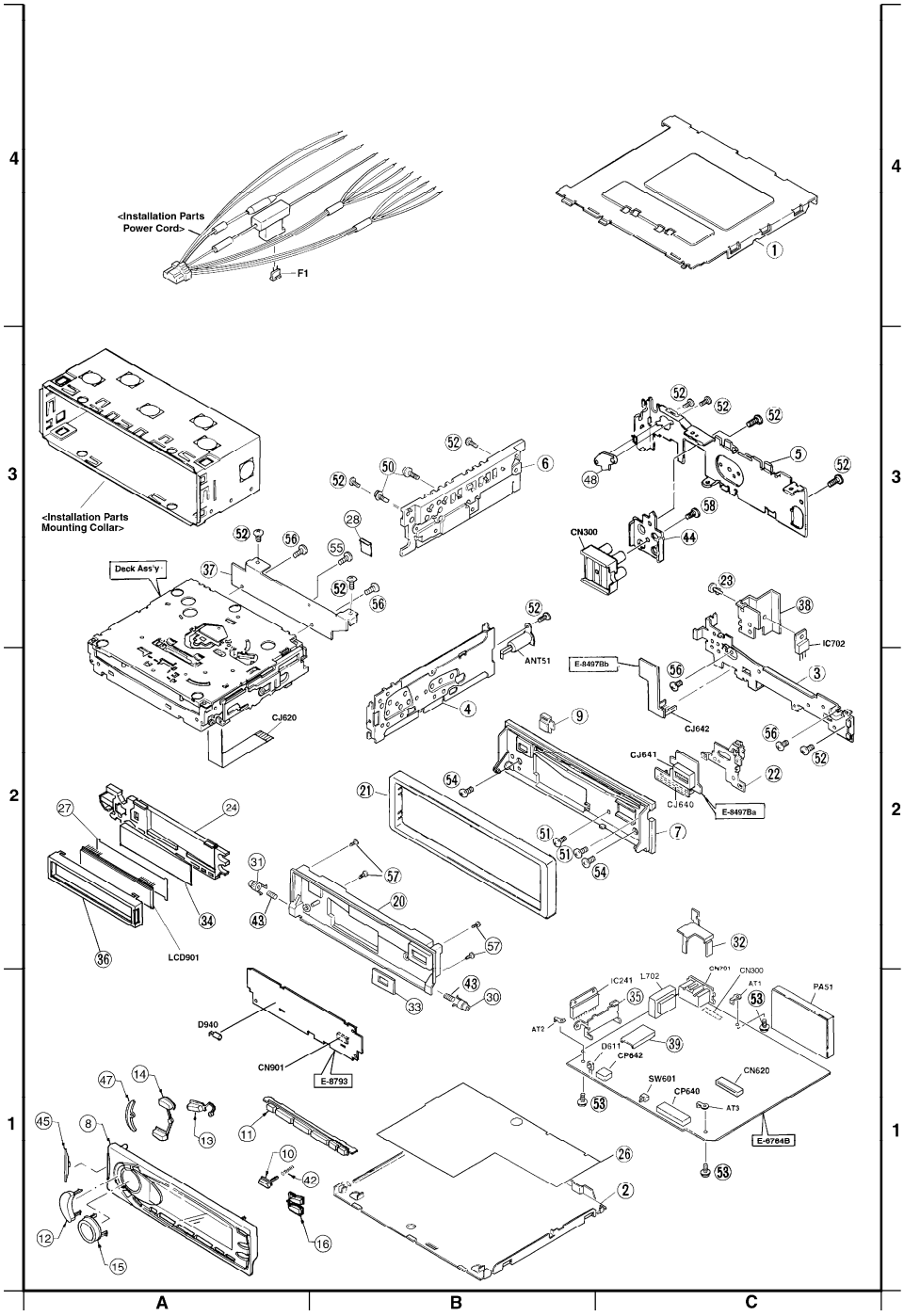
Ref. No.	Part No.	Part Name & Description	Remarks
	YEAJ02792	Power Connector	
	CR2025/1F	Battery	
	YEFG04019	Rear Support Strap	
	YEFA131302	Removal Face Plate Case	
	YEFX0214198	Mounting Collar	
	YEFX9992013	Remote Controller	
	YGP9FZ2714	Screw Kit	

10.5. Mechanical Parts

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
F1	YEAF02015	Fuse, 15A	⚠
ANT51	YGAA10082	Antenna Receplacle	
AT1-3	YEAT03420	Terminal	
1	YEFA031359E	Upper Cover	
2	YEFA05594B	Bottom Cover	
3	YEP9FX068A	Front Chassis Ass'y	
4	YEFA09508	Side Plate	
5	YEFA08462AK	Rear Plate	
6	YEFF01921	Heat Sink	
7	YEFC025658A	Escucheon Ass'y, Unit	
8	YEFC027103	Escucheon Ass'y, Detachable	
9	YEFE135147	Button, EJECT	
10	YEFE135442	Button, OPEN	
11	YEFE135945	Button, PRESET	
12	YEFE135435	Button, VOL	
13	YEFE135436	Button, SEL	
14	YEFE136069	Button, BAND/SOURCE	
15	YEFE135439	Button, TUNE/TRACK	
16	YEFE136070	Button, LEVEL/DISP	
20	YEFA131413	Cover, Detachable	
21	YEFC05570	Trim Plate	
22	YEP9FX069	Hook Bracket Ass'y	
23	YEFJ05046	Coror Revet	
24	YEFK06897A	Holder, LCD	
26	YEFV011813	Insulator	
28	YEFV011890	Insulator	
27	YEFV021562A	Optical Shade	
30	YEFW04156	Shaft Collar	
31	YEFW04157	Shaft Collar	
32	YEFX0214422	Bracket, CN701	
33	YEFV011928	Insulator	
34	YEFX0011960	Transparent Plate	
35	YEFX0213945B	Bracket, IC241	
36	YEFX0214906	Bracket, LCD	
37	YEFX0214481	Bracket, Deck	
38	YEFX0214423	Bracket, IC702	
39	YEFX0214168	Bracket, IC704	
42	YEFX0052396	Spring	
43	YEFX0052253	Spring	
44	YEFX0213650	Bracket, RCA	
45	YEFX0011904	Transparent Plate	
47	YEFX0011905	Transparent Plate	
48	YEFX0214689	Bracket, DIN	
50	YEJS06092	Screw, M3x10mm	
51	YEJS03020	Screw, M2x4mm	
52	XTB3+6FFX	Tapping Screw, M3x6mm	
53	YEJT03009	Screw, M3x8mm	
54	YGJT03156	Tapping Screw, M2.6x5mm	
55	XTB2+5FFX	Tapping Screw, M2x5mm	
56	XTB26+6GFX	Tapping Screw, M2.6x6mm	
57	XTN2+8GFZ	Tapping Screw, M2x8mm	
58	XTB3+8GFX	Screw, M3x8mm	

11. EXPLODED VIEW (Unit)



12. CD PLAYER PARTS LIST

Note:

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. / When replacing any of these components, use only manufacturer's specified parts.**

3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a load map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be availability is dependent on the type of assembly, and in accrdance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
5. "A" marks in remarks column are indicated supply parts of Audio Division(AD) in Matsushita Electric Industrial Co., Ltd.(MEI)
6. "V" marks in remarks column are indicated supply parts of Video System Division(VSD) in Matsushita Electric Industrial Co., Ltd.(MEI)

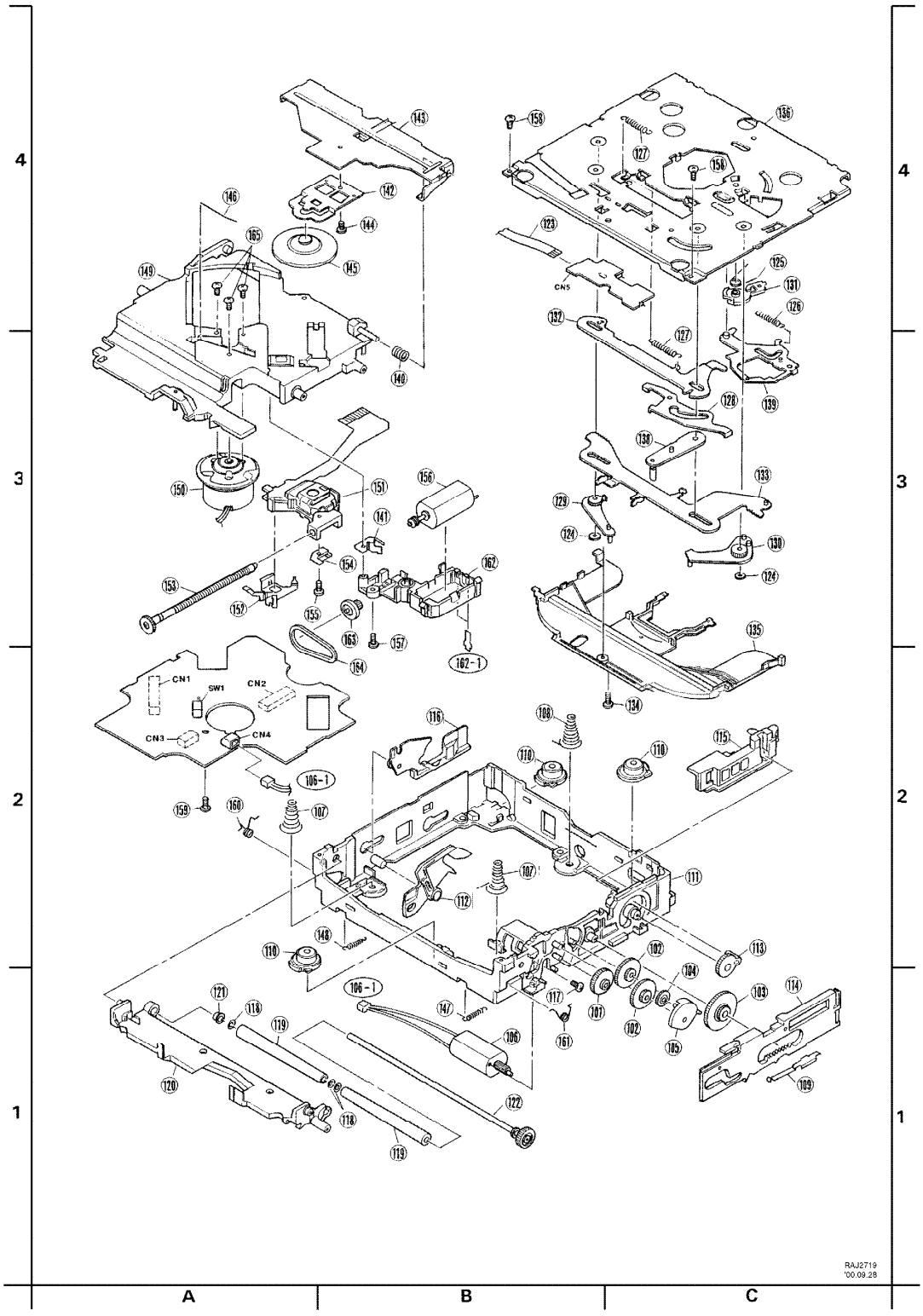
Ref. No.	Part No.	Part Name & Description	Remarks
IC's and Transisrtors			
IC1	AN8835SB	IC	V
IC2	MN6627481RPM	IC	V
IC3	BA6795FPE2	IC	V
IC4	C2BBFD000218	IC	V
Q1	2SA1037AKTXR	Transistor	V
Q101,102	2SD1819A-R	Transistor	V
Capacitors			
C1	RCSX0JX226RE	Tantalum,22MFD 6.3WV	
C3	ECEA0JKA101	Electrolytic,100MFD 6.3WV	
C4	ECUX1A105ZFV	Chip,1MFD 10WV	V
C5	ECUX1A105ZFV	Chip,1MFD 10WV	V
C6,C7	ECUX1C104KBV	Chip,0.1MFD 16WV	V
C8	ECUX1H272KBV	Chip,0.0027MFD 50WV	V
C9	ECUX1C273KBV	Chip,0.027MFD 16WV	V
C10,11	ECUX1C104KBV	Chip,0.1MFD 16WV	V
C12	ECUX1H222KBV	Chip,0.0022MFD 50WV	V
C13	ECUX1H182KBV	Chip,0.0018MFD 50WV	V
C14	ECUX1C104KBV	Chip,0.1MFD 16WV	V
C15	ECUX1C473KBV	Chip,0.047MFD 16WV	V
C16	ECUX1E223KBV	Chip,0.022MFD 25WV	V
C17	ECUX1C273KBV	Chip,0.027MFD 16WV	V
C18	ECUX1H471KBV	Chip,470pF 50WV	V
C19	ECUX1C104KBV	Chip,0.1MFD 16WV	V
C20	ECUX1E223KBV	Chip,0.022MFD 25WV	V
C21	ECUM1C474KBN	Chip,0.47MFD 16WV	V
C23	ECUX1H070DCV	Chip,7pF 50WV	V
C24	ECUX1H220JCV	Chip,22pF 50WV	
C25	ECUX1C104ZFV	Chip,0.1MFD 16WV	V
C26,27	ECUX1H102KBV	Chip,0.001MFD 50WV	V
C28	ECUX1H223ZFV	Chip,0.022MFD 50WV	V
C29	RCE0JPK221IG	Electrolytic,220MFD 6.3WV	V
C30	F1H1A154A022	Chip,0.15MFD 10WV	V

Ref. No.	Part No.	Part Name & Description	Remarks
C33	RCE0JPK221IG	Electrolytic,220MFD 6.3WV	V
C34	ECUX1H561KBV	Chip,560pF 50WV	V
C35	ECEA0JKA101	Electrolytic,100MFD 6.3WV	
C36	ECEA1AKA221	Electrolytic,220MFD 6.3WV	
C37	ECUX1A105ZFV	Chip,1MFD 10WV	V
C38	ECEA0JKA221	Electrolytic,220MFD 6.3WV	
C39	ECUX1A105ZFV	Chip,1MFD 10WV	V
C40	ECUX1H472KBV	Chip,0.0047MFD 50WV	V
C42	ECUX1A105ZFV	Chip,1MFD 10WV	V
C44	F1H1H331A190	Chip,330pF 50WV	V
C46	ECUX1A105ZFV	Chip,1MFD 10WV	V
C54	ECUX1H103KBV	Chip,0.01MFD 50WV	V
C56	F1H1H221A190	Chip,220pF 50WV	V
C101	ECUX1H151JCV	Chip,150pF 50WV	
Resistors			
R1	ERJ6GEYJ150	Chip,15 ohms 1/10W	
R2	ERJ3GEYJ221V	Chip,220 ohms 1/16W	
R3	ERJ6GEYJ150	Chip,15 ohms 1/16W	
R5	ERJ3GEYJ330V	Chip,33 ohms 1/16W	
R6	ERJ3GEYJ224V	Chip,220k ohms 1/16W	
R7	ERJ3GEYJ184V	Chip,180k ohms 1/16W	
R8	ERJ3GEYG102V	Chip,1k ohms 1/16W	
R9	ERJ3GEYJ103V	Chip,100 ohms 1/16W	
R10	ERJ3GEYG102V	Chip,1k ohms 1/16W	
R11	ERJ3GEYJ103V	Chip,10k ohms 1/16W	
R12	ERJ3GEYJ393V	Chip,3.9k ohms 1/16W	
R13	ERJ3GEYJ183V	Chip,18k ohms 1/16W	
R14,15	ERJ3GEYJ473V	Chip,47k ohms 1/16W	
R16	ERJ3GEYJ154V	Chip,150k ohms 1/16W	
R17	ERJ3GEYJ683V	Chip,68k ohms 1/16W	
R18	ERJ3GEYG471V	Chip,470 ohms 1/16W	
R20	ERJ3GEYJ101V	Chip,100 ohms 1/16W	
R21,22	ERJ3GEYJ220V	Chip,22 ohms 1/16W	
R23	ERJ3GEYG822V	Chip,8.2k ohms 1/16W	
R24	ERJ3GEYJ103V	Chip,10k ohms 1/16W	
R25	ERJ3GEYJ473V	Chip,47k ohms 1/16W	
R26	ERJ3GEYJ333V	Chip,33k ohms 1/16W	
R27	ERJ3GEYJ473V	Chip,47k ohms 1/16W	
R28,29	ERJ3GEYG102V	Chip,1k ohms 1/16W	
R30	ERJ3GEYJ103V	Chip,10k ohms 1/16W	
R31-37	ERJ3GEYJ473V	Chip,47k ohms 1/16W	
R39-41	ERJ3GEYJ473V	Chip,47k ohms 1/16W	
R42-46	ERJ3GEYG102V	Chip,1k ohms 1/16W	
R47	ERJ3GEYJ121V	Chip,120 ohms 1/16W	
R48	ERJ6GEYJ1R8	Chip,1.8 ohms 1/10W	
R49	ERJ3GEYJ155V	Chip,1.5M ohms 1/16W	
R50-56	ERJ3GEYJ473V	Chip,47k ohms 1/16W	
R57	ERJ3GEYG472V	Chip,4.7k ohms 1/16W	
R58	ERJ3GEYG102V	Chip,1k ohms 1/16W	
R62	ERJ3GEYJ272V	Chip,2.7k ohms 1/16W	
R63	ERJ3GEYG102V	Chip,1k ohms 1/16W	
R64	ERJ6GEYJ2R2	Chip,2.2 ohms 1/10W	
R101	ERJ3GEYJ105V	Chip,1M ohms 1/16W	
R102	ERJ3GEYJ224V	Chip,220k ohms 1/16W	
J1	ERJ8GEY0R00V	Chip,0 ohms 1/8W	
RJ8	ERJ8GEY0R00V	Chip,0 ohms 1/8W	

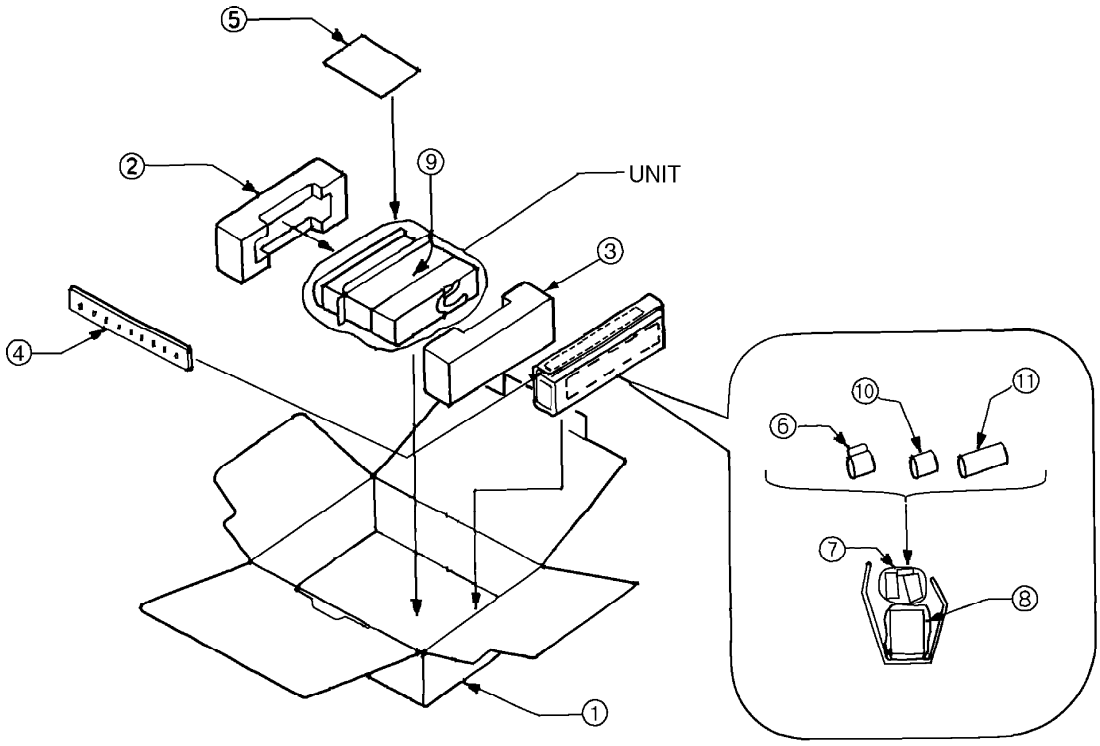
Ref. No.	Part No.	Part Name & Description	Remarks
Oscillators			
X1	RVBCST4R00MT	Ceramic Oscilator	V
X2	RSXC16M9S01T	Ceramic Oscilator	V
Switches			
SW1	ESE11SH2	SW	V
SW2	RSP1A015-A	SW	V
SW4	RSP1A015-A	SW	V
SW5	RSP1A015-A	SW	V
Connectors			
CN1	RJS2A1816T	Connector,16P	V
CN2	RJS1A7114T	Connector,16P	V
CN3	RJS1A7105T	Connector,16P	V
CN4	RJP2G17ZA	Connector,2P	V
CN5	RJS2A1405	Connector,5P	V
Miscellaneous			
101	RDG0350	Gear	V(1-B)
102	RDG0351	Gear N2	V(1-C)
103	RDG0352	Loading Gear	V(1-C)
104	RDG0353	Roller Drive Gear	V(1-C)
105	RDG0354	Roller Drive Arm	V(1-C)
106	REM0060	Loading Motor	V(1-B)
106-1	REE0669	Lead Wire	V(2-A) (1-B)
107	RMB0465	Spring	V(2-A) (2-B)
108	RMB0466	Spring	V(2-A)
109	RMC0292	Main Slider Spring	V(1-C)
110	RMG0408-K	Insullator	V(2-A) (2-B)
111	RMK0309	Mechanism Frame	V(2-B)
112	RML0432	Lock Arm	V(2-B)
113	RML0433	Drive Arm	V(2-C)
114	RMR0952-W	Main Slider	V(1-C)
115	RMR0953-W	Lift Slider	V(2-C)
116	RMR0954-W	Lock Slider	V(2-B)
117	XYN2+C6	Screw,2mm * 5mm	V(1-B)
118	RHW31005	Washer	V(1-A)
119	RMG0382-H	Rubber Roller	V(1-A)
120	RML0434	Roller Arm	V(1-A)
121	RMR0769-W	Roller Bering	V(1-A)
122	RXJ0017	Roller Shaft	V(1-B)
123	REE0668	Flexible PCB	V(4-B)
124	RHW27004	Washer	V(3-C)
125	RMB0461	Spring	V(4-C)
126	RMB0468	Spring	V(4-C)
127	RMB0489	Spring	V(4-C) (3-C)
128	RML0428	Switch Lever	V(3-C)
129	RML0430	Trigger Lever L	V(3-C)
130	RML0431	Trigger Lever R	V(3-C)
131	RML0435	Lock Lever	V(4-C)
132	RMM0155	Slider A	V(3-C)

Ref. No.	Part No.	Part Name & Description	Remarks
133	RMM0156	Slider B	V(3-C)
134	RMQ0597	Screw	V(2-C)
135	RMR0951-W	Disc Guide	V(2-C)
136	RXK0201	Upper Chssis	V(4-C)
138	RXL0135	CD Detect Lever R	V(3-C)
139	RXL0136	Control Arm	V(3-C)
140	RMB0462	Spring	V(3-B)
141	RMC0295	Drive Shaft Retainer	V(3-B)
142	RMC0293	Clamper Retainer	V(4-B)
143	RML0429	Clamp Arm	V(4-B)
144	RMQ0467	Screw	V(4-B)
145	RMR0956-W	Clamper	(4-B)
146	RMB0345-2	Spring	V(4-A)
147	RMB0445	Spring	V(1-B)
148	RMB0467	Spring	V(2-B)
149	RXK0199	Traverse Chassis	V(4-A)
150	RFKPAJ2751K	Spindle Motor	V(3-A)
151	RAF0140A	Oprical Pickup	V(3-B)
152	RMC0294	Optical Pickup Retainer	V(3-A)
153	RXJ0018	Drive Shaft	V(3-A)
154	RXQ0474	Boad Nut	V(3-B)
155	XQN17+BG45	Screw	V(3-B)
156	REM0061	Traverse Motor	V(3-B)
157	XTW2+6S	Screw,2mm * 6mm	V(3-B)
158	XQN2+CJ8	Screw,2mm * 8mm	V(4-C)
159	XTW2+6S	Screw,2mm * 6mm	V(2-A)
160	RMB0463	Spring	V(2-A)
161	RMB0464	Spring	V(1-B)
162	RXQ0476	Holder	V(3-B)
162-1	RMA0921	Terminal Board	V(3-B)
163	RDP0084	Pulley	V(3-B)
164	RDV0030	Belt	V(2-B)
165	RMQ0461	Screw	V(4-A)

13. EXPLODED VIEW (CD Deck)



14. PACKING PARTS LIST



- Item numbers listed below should not order regular spare parts. (not available)

Item No.	Part No.	Part Name & Description	Q'ty	Remarks
1	-	Inner Carton	1	Not available
2	-	Packing Pad Front	1	Not available
3	-	Packing Pad Rear	1	Not available
4	YEFG04019	Rear Support Strap	1	
5	YEP9PR3491	Instruction Book Kit	1	Not available
	YEFM283446	Instruction Book	(1)	
		Warranty Card	(1)	Not available
		Servicenter List	(1)	Not available
6	YEP9FZ2714	Screw Kit	1	
7	YEAJ02792	Power Connector	1	
8	YEFA131302	Removal Face Plate Case	1	
9	YEFX0214198A	Mounting Collar	1	
10	CR2025/1F	Battery	1	
11	YEFX9992013	Remote Controller	1	

15. WIRING DIAGRAM

15.1. Display Block

15.2. CD Servo Block (Top View)

15.3. CD Servo Block (Bottom View)

15.4. Main Block (Top View)

15.5. Main Block (Bottom View)

15.6. Sub. Block

16. SCHEMATIC DIAGRAM

16.1. Display Block

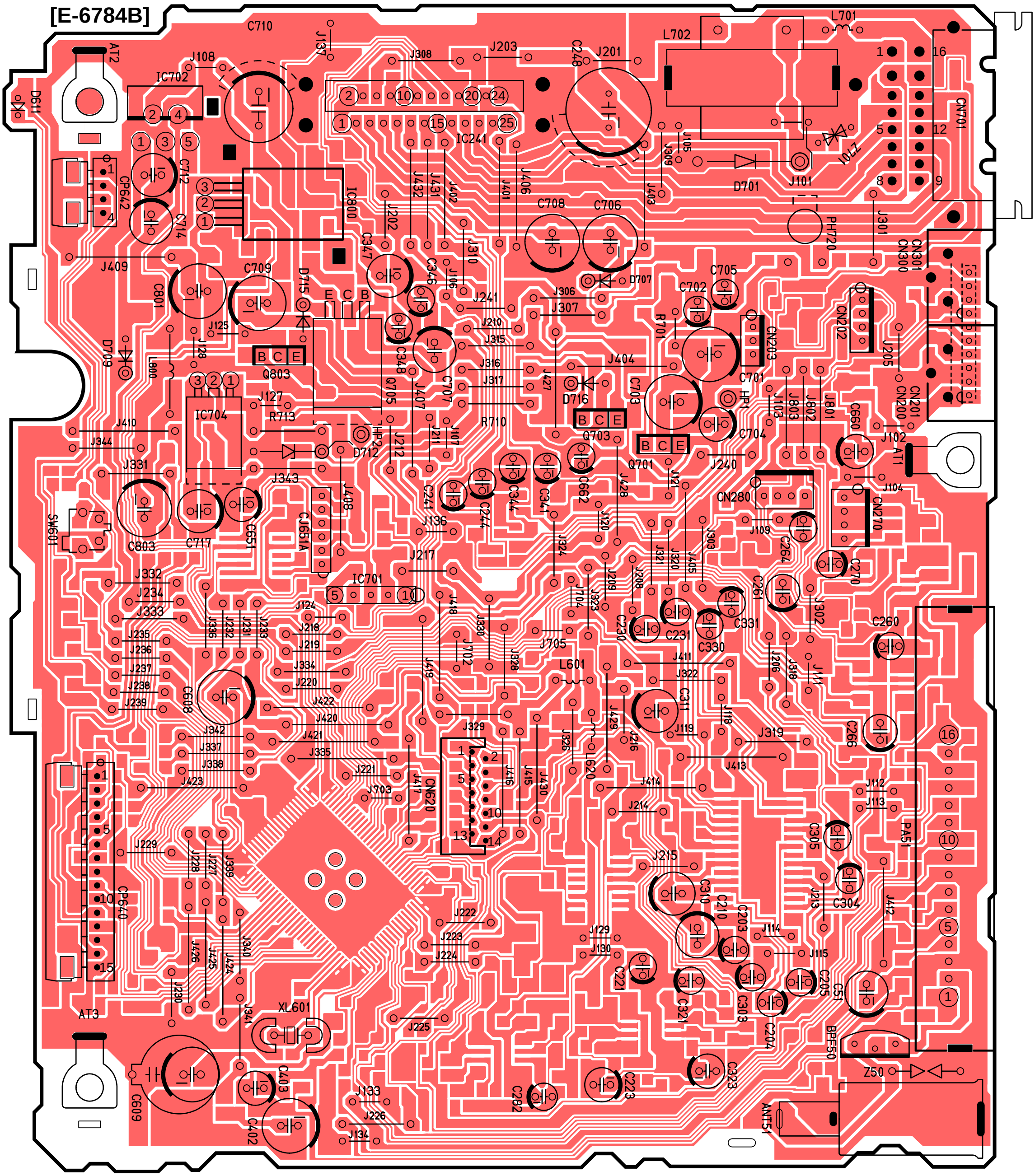
16.2. Main Block

16.3. CD Servo Block

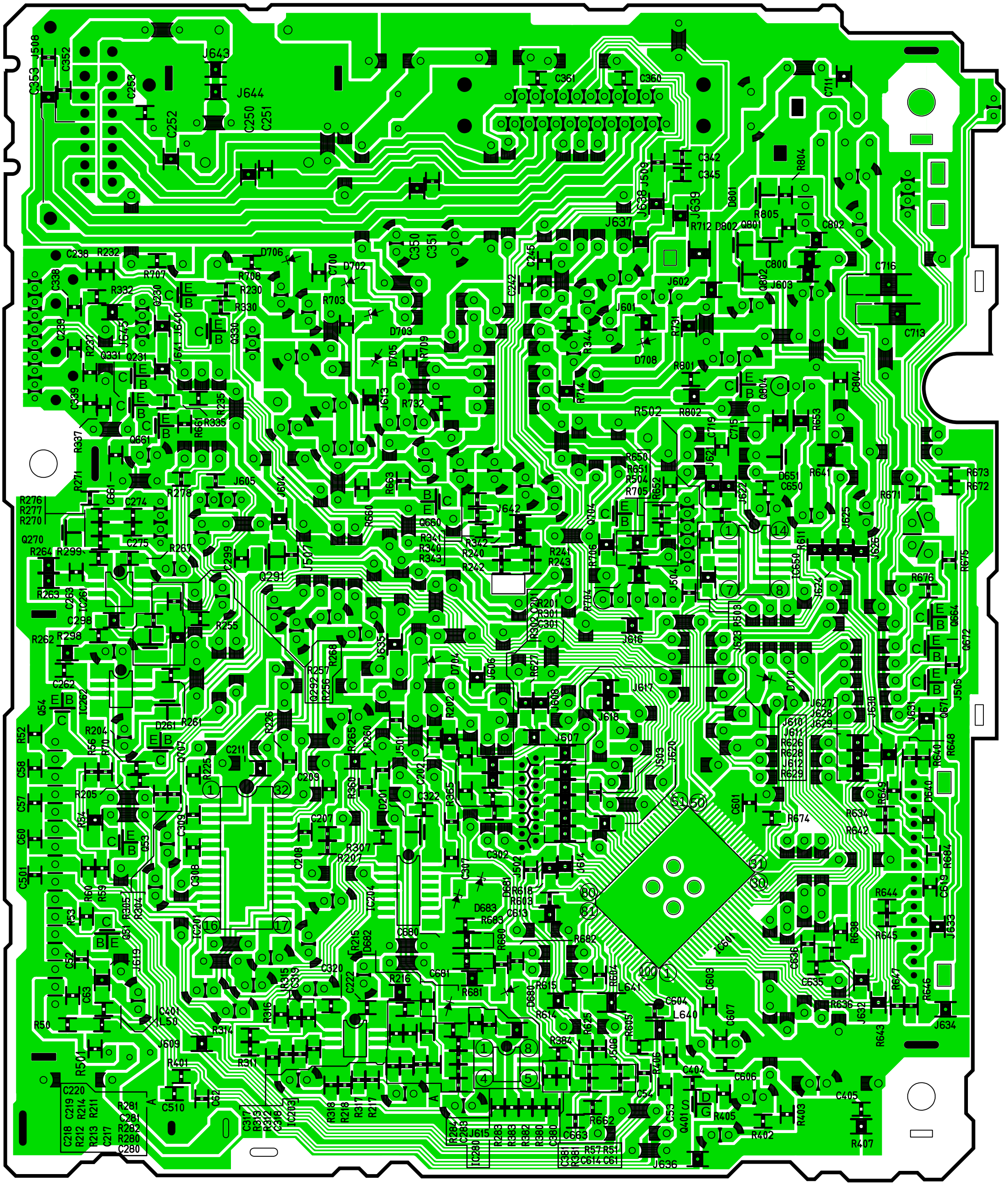
16.4. Sub. Block

[Top View]

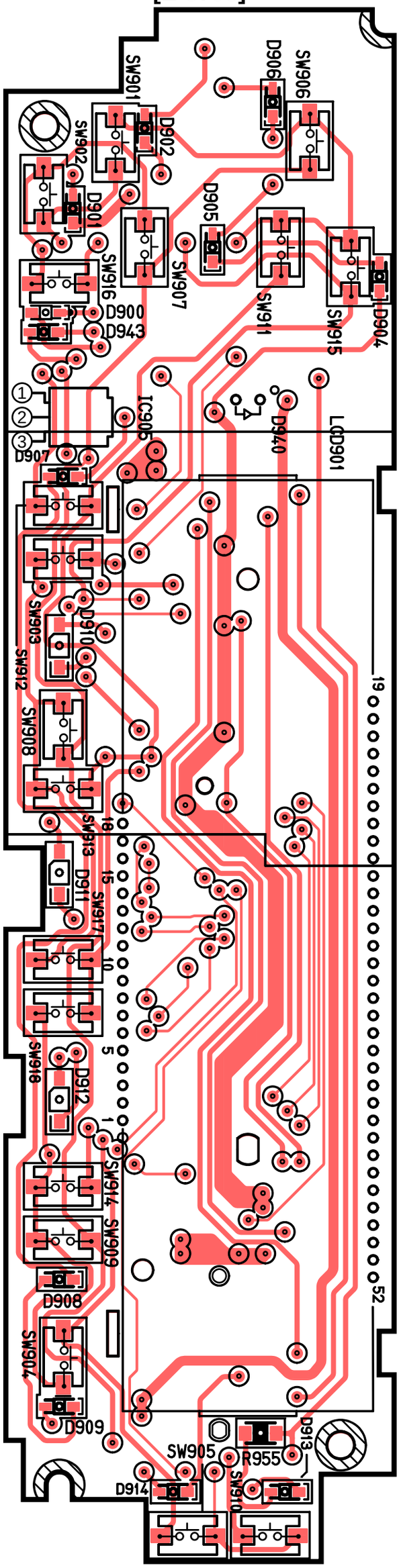
[E-6784B]



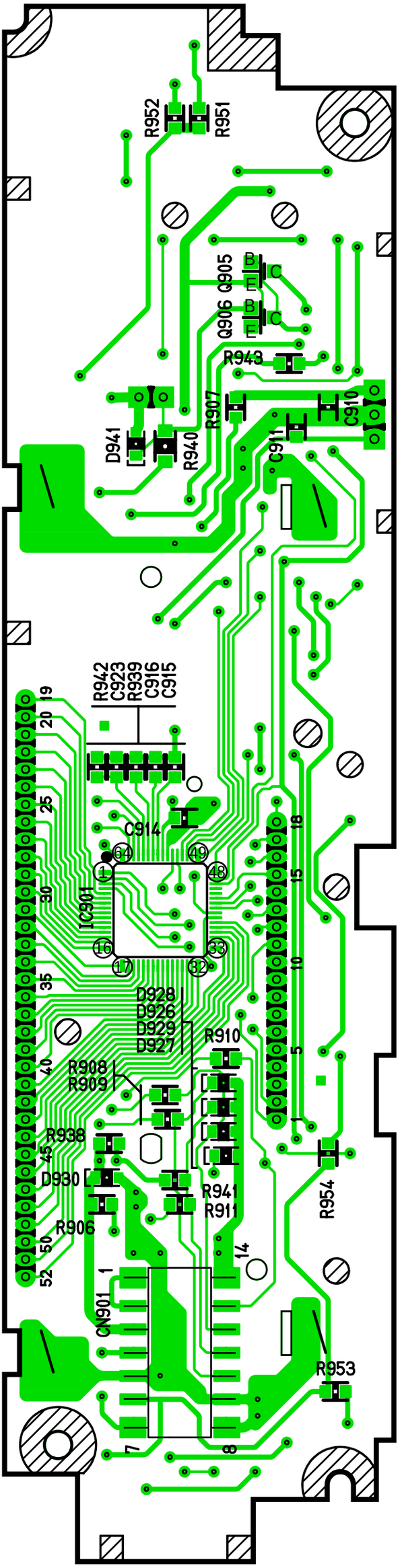
[E-6784B] [Bottom View]



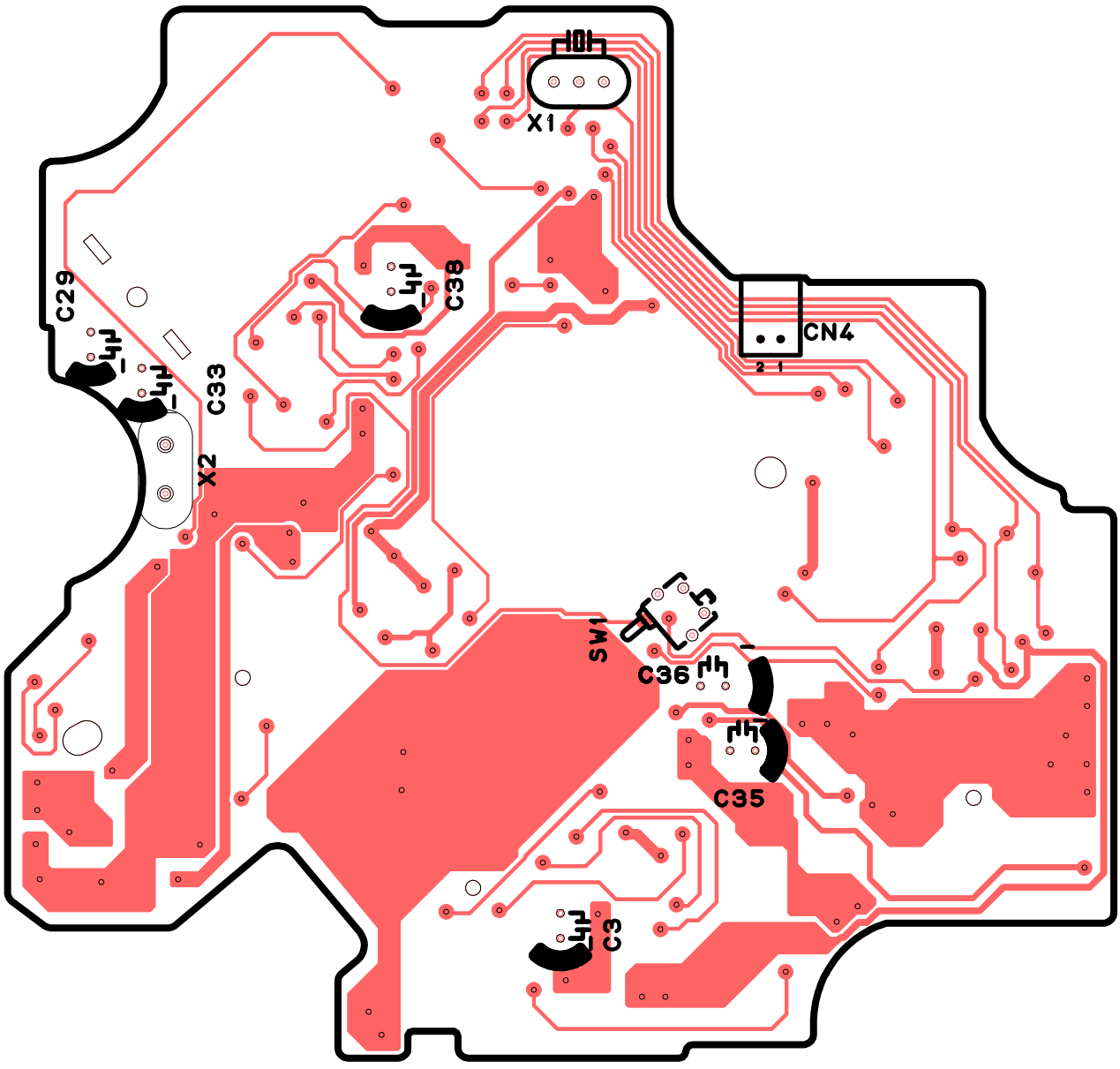
[E-8793]



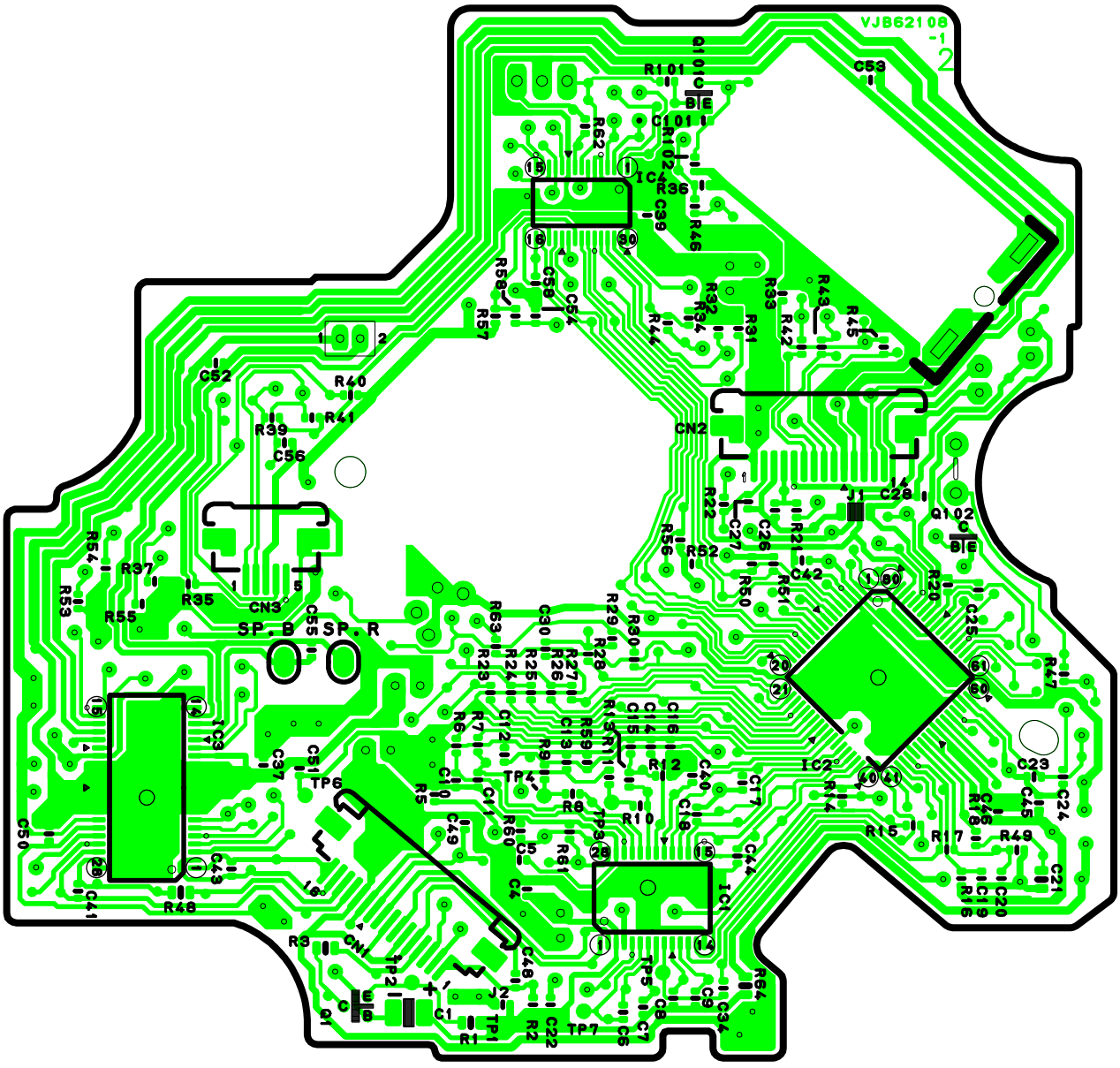
<TOP VIEW>



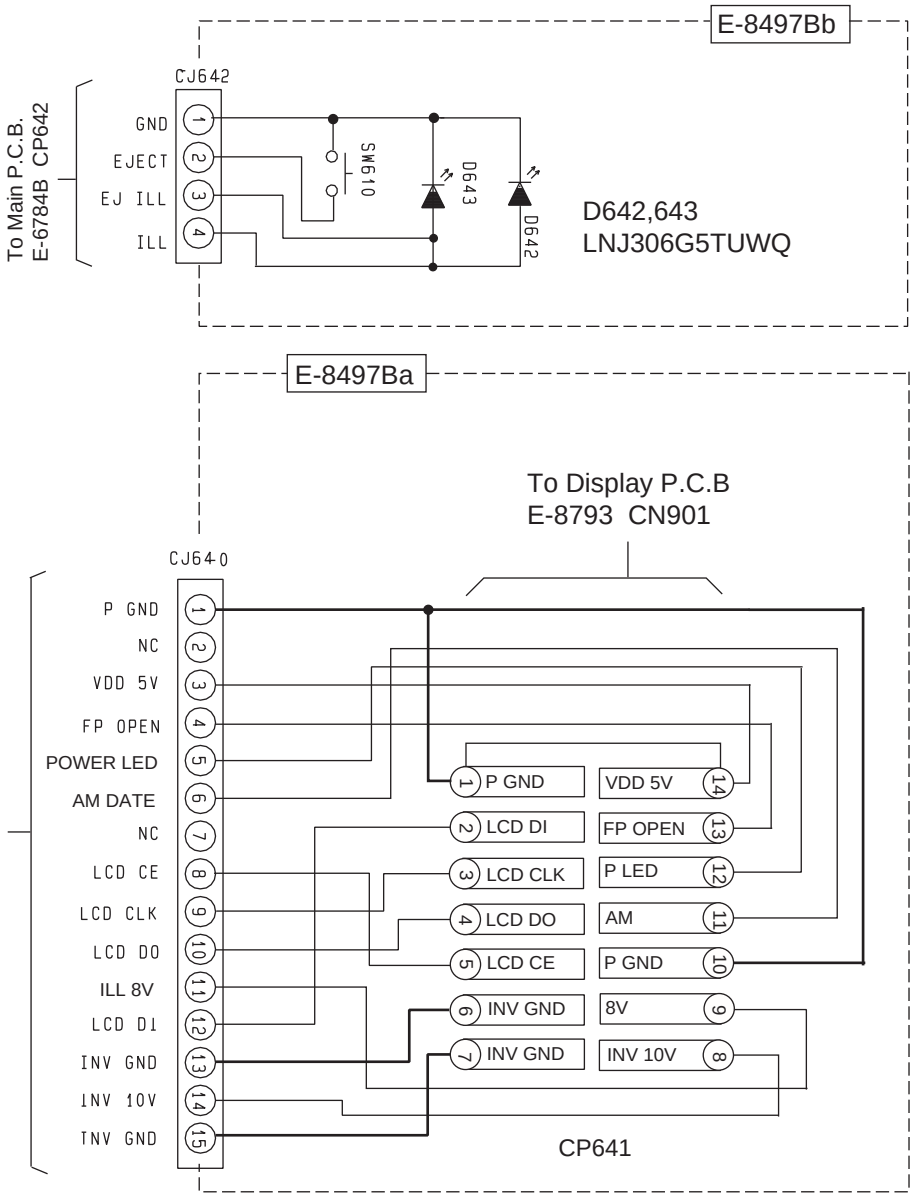
<BOTTOM VIEW>



[VJB62108] [Top View]



[VJB62108] Bottom View]


E-8497Bb
CJ642
GND
EJECT
EJ ILL
ILL
1
2
3
4
SW610
D643
D642
To Main P.C.B.
E-6784B CP642
D642,643
LNJ306G5TUWQ
E-8497Ba
To Display P.C.B
E-8793 CN901
CJ640
P GND
NC
VDD 5V
FP OPEN
POWER LED
AM DATE
NC
LCD CE
LCD CLK
LCD DO
ILL 8V
LCD D1
INV GND
INV 10V
INV GND
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
To Main P.C.B.
E-6784B CP640
P GND
LCD DI
LCD CLK
LCD DO
LCD CE
INV GND
INV GND
VDD 5V
FP OPEN
P LED
AM
P GND
8V
INV 10V
14
13
12
11
10
9
8
CP641

E-6784B

ELECTRONIC VOLUME CONTROL

LEVEL METER

CPU IC601 C2HB0F000018

The following symbols are shown on the schematic diagram.

+B	
ACC	
5V	
7V	
8V	
RADIO	(L.A)
CD	(L.A)
AUDIO	(L.A)

To CD Servo P.C.B K.A6BC210B CN2

To Extension P.C.B E-8497BD CJ642

To Extension P.C.B E-8497Ba CJ640

CG-DF201ULK

I.R. RECEIVER

IC905
YEAMSBX8035F
VCC GND OUT
5.0 5.0

R955 270 D913 D914 LNJ30665TUW0
R954 120 D912 D911 LN1361CTR
R953 120 D909 D908 LNJ30665TUW0
R952 120 D906 D905 LNJ30665TUW0
R951 390 D902 LNJ30665TUW0
D910 LN1361CTR D907 LNJ30665TUW0 D904 LNJ30665TUW0 D901 LNJ30665TUW0

0.1 910 0.001
R907 1K

D930 MA8047MTX
R938 4.7

D900 LN1271RAL
R906 1.5K
Q905 5.2
Q906 0 4.7
D943
R943 220
LNJ306G5TUWQ

SWITCH
Q905, 906
B1GBCFNN0005

CN901
1 VDD.5V
2 FP.OPEN
3 P.LED
4 RM.DATA
5 P.GND
6 ILL.8V
7 LED.5V
14 P.GND
13 LCD.DI
12 LCD.CLK
11 LCD.DO
10 LCD.CE
9 INV.GND
8 INV.GND

To Extension P.C.B.
E-8497Ba CP641

R941 10K

D928 MA8056LMHTX R909 1K CE
D926 MA8056LMHTX R911 1K DO
D929 MA8056LMHTX R908 1K CLK
D927 MA8056LMHTX R910 1K DI

R940 120
D940 B3AFA0000015
D941
M98047MTX

SW905 DISP CLOCK
SW904 REP RANDOM
SW903 M1 7
SW902 SEL
SW901 VOL ▽
SW910 LEVEL
SW909 LOUD
SW908 M2 8
SW907 TUNE ▽ TRACK ◀◀
SW906 VOL △
SW914 M6 12
SW913 M3 9
SW912 MUTE MONO/LOC
SW911 TUNE △ TRACK ▶▶
SW918 M5 11
SW917 M4 10
SW916 SOUR PWR
SW915 BAND AUTO.P CHANGER 1 2

5V P-P
2mS, 2V/DIV

IC901
YEAMLC75854T
(1~43pin : 2.5V)

0.9 48 KS5 47 KS4 46 KS3 45 KS2 44 KS1
COM4 43 COM3 42 COM2 41 COM1 40
S39 39 S38 38 S37 37 S36 36 S35 35 S34 34 S33 33
0.9 49 KS6
0 50 KI1
0 51 KI2
0 52 KI3
0 53 KI4
0 54 KI5
55 TEST
C914 0.1
5.1 56 VDD
C915 0.1 3.3 57 VDD1
C916 0.1 1.7 58 VDD2
R939 4.7
C923 680P
47K R942
59 VSS
3.9 60 OSC
4.4 DO 61 DO
0 CE 62 CE
0 CLK 63 CLK
0 DI 64 DI
SEG32 32 SEG31 31 SEG30 30 SEG29 29 SEG28 28 SEG27 27 SEG26 26 SEG25 25 SEG24 24 SEG23 23 SEG22 22 SEG21 21 SEG20 20 SEG19 19 SEG18 18 SEG17 17
SEG1 1 SEG2 2 SEG3 3 SEG4 4 SEG5 5 SEG6 6 SEG7 7 SEG8 8 SEG9 9 SEG10 10 SEG11 11 SEG12 12 SEG13 13 SEG14 14 SEG15 15 SEG16 16

5V P-P
2mS, 2V/DIV

5V P-P
1mS, 2V/DIV

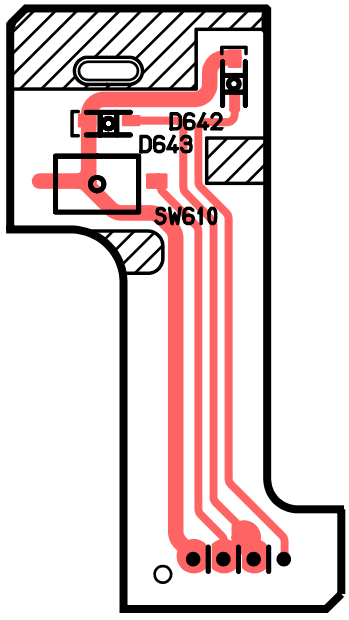
5V P-P
0.5mS, 2V/DIV

S5 19 S6 20 S7 21 S8 22 S9 23 S10 24 S11 25 S12 26 S13 27 S14 28 S15 29 S16 30 S17 31 S18 32 S19 33 S20 34 S21 35 S22 36 S23 37 S24 38 S25 39 S26 40 S27 41 S28 42 S29 43 S30 44 S31 45 S32 46 S33 47 S34 48 S35 49 S36 50 S37 51 S38 52

LCD901
L5ACBKC00004
18 COM.1 17 COM.2 16 COM.3 15 COM.4 14 S1 13 S2 12 S3 11 10 9 8 7 6 5 4 3 2 S4 1 S39

CN3
RJS1A7105T
SW1
SW2
SW4
SW1
RESET
SW
ESE11SH2
MT1
TRAVERSE
MOTOR
LAND1
LAND2
C53
K0.01
C36
10V220
C37
1
C41
K0.01
IC3
FOCUS, TRACKING COIL DRIVE/
LOADING, SPINDLE, TRAVERESE MOTOR DRIVE
BA6795FPE2
IC3
C43
K0.01
C52
K0.01
SPR
SPB
MT2
SPINDLE
MOTOR
CN4
RJP2G17ZA
MT3
LOADING
MOTOR
LOADING.M
C51
K0.01
R64
2.2
J2
TP1
TP2
R1
15
C1
6V22(T)
Q1
2SA1037AKTXR
5V
R28
1K
R30
10K
C30
K0.15
X1
4.0M
C56
K220P
R53
R54
R55
R37
R62
2.7K
IC4
CD SYSTEM
CONTROL
C2BBD000218
R39
R41
R46
1K
2SD1819A-TX
Q102
R102
220K
Q101
2SD1819A-TX
R101
1M
C101
J150P
C58
K0.1
C54
K0.01
R58
1K
R36
R34
R33
R32
R31
C38
6V220
C39
1
R50
R51
R52
R56
R57
1K
CN2
RJS1A7114T
To Main P.C.B. E-6784B CN620
GND
OUT. R
A. GND
OUT. L
+5V
ACC
C1
DATA
C2
+B5V
RST
P. GND
D. MUTE
+7.5V
R42
R43
R44
R45
1K
R63
1K
C27
K0.001
C26
K0.001
R22
22
R21
22
R20
100
C25
Z0.1
C28
Z0.022
C29
6V/220(A)
C42
Z1
C33
6V/220(A)
J1
0
CN1
RJS2A1816T
Vcc
F
E
LD
LDGND
GND
NB
GND
NA
Vref
LPD
GND
T-
T+
F-
F+
0.1
1K
Ain
Bin
Vcc
GND
NB
Vref
NA
GND
TRACKING-COIL
FOCUS-COIL
R2
220
R3
15
R5
33
R48
1.8
C48
K0.01
C49
K0.01
C35
6V100
C5
1
C3
6V100
C4
1
C22
0.1
IC1
AN88355BE1V
SERVO AMP
C6
K0.1
C7
K0.1
C8
K0.0027
C9
K0.027
C44
K330P
C34
K560P
R61
1K
R60
1K
TP3
TP4
TP5
TP6
TP7
R8
1K
R10
1K
R9
10K
R11
10K
C40
K0.0047
C10
K0.1
C11
K0.1
C12
K0.0022
C13
K0.0018
C14
K0.1
R13
18K
R12
39K
C15
K0.047
C16
K0.022
C17
K0.027
C18
K470P
C50
K0.01
R59
1K
R14
47K
R15
47K
R16
150K
C19
K0.1
R49
1.5M
C20
K0.022
C21
K0.47
R18
47K
R17
68K
C45
Z0.22
C46
1
X2
16.934M
C23
D7P
R47
120
C24
J22P
R27
R26
33K
R25
R24
10K
R23
8.2K
R6
220K
R7
180K
IC2
MN6627481RPM
1.0uS, 2V/DIV
2mS, 2V/DIV
2mS, 2V/DIV
40nS, 2V/DIV
2uS, 2V/DIV
20nS, 2V/DIV
IC2
SERVO PROCESSOR/
DIGITAL SIGNAL PROCESSOR/
DIGTAL FILTER/
D/A CONVERTER
RAJ2719 [VJ62108]

[E-8497Bb]



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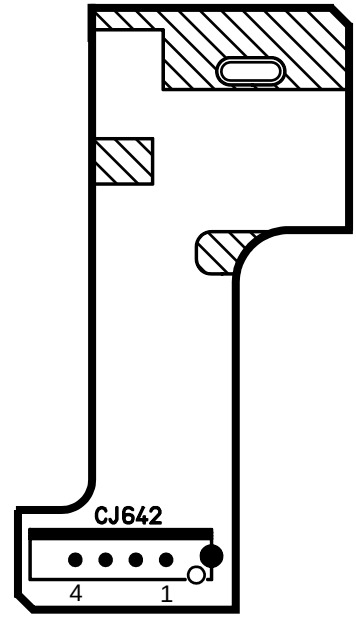

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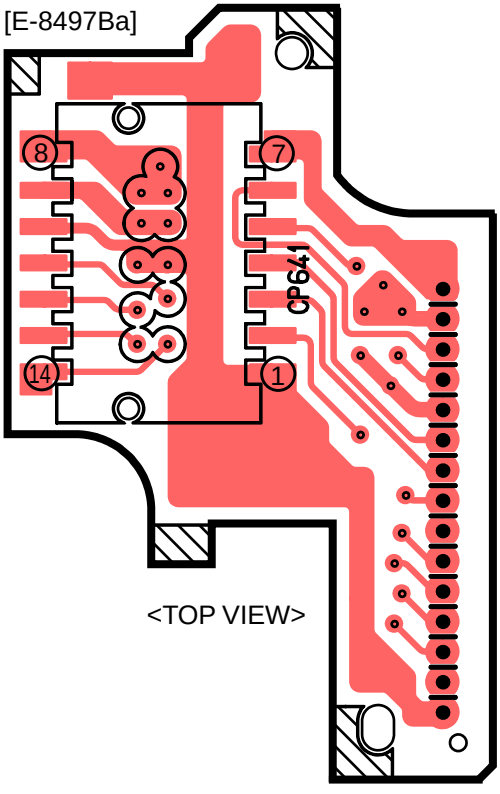
[E-8497Ba]



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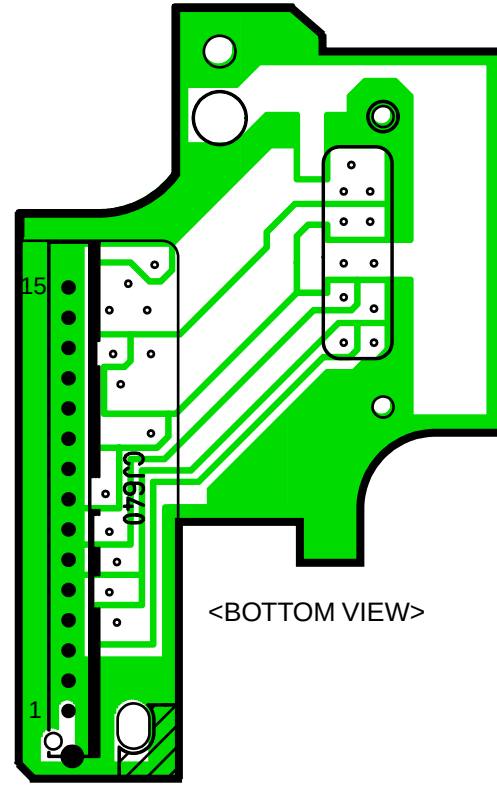

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